

[illegible]

DWN BY: _____	CONTRACT NO. W912ER-09-D-0002
REVIEWED BY: _____	DRAWING CODE: _____
SUBMITTED BY: _____	FILE NAME: ARCHFORMCORP\CA317206
BAKER	PLOT SCALE: 1:100
	PLOT DATE: 3/22/2011

CORPS OF ENGINEERS
APO AE 09356

B21 - NCO BARRACKS - LARGE - ARCH SPAN

SHEET
REFERENCE
NUMBER:

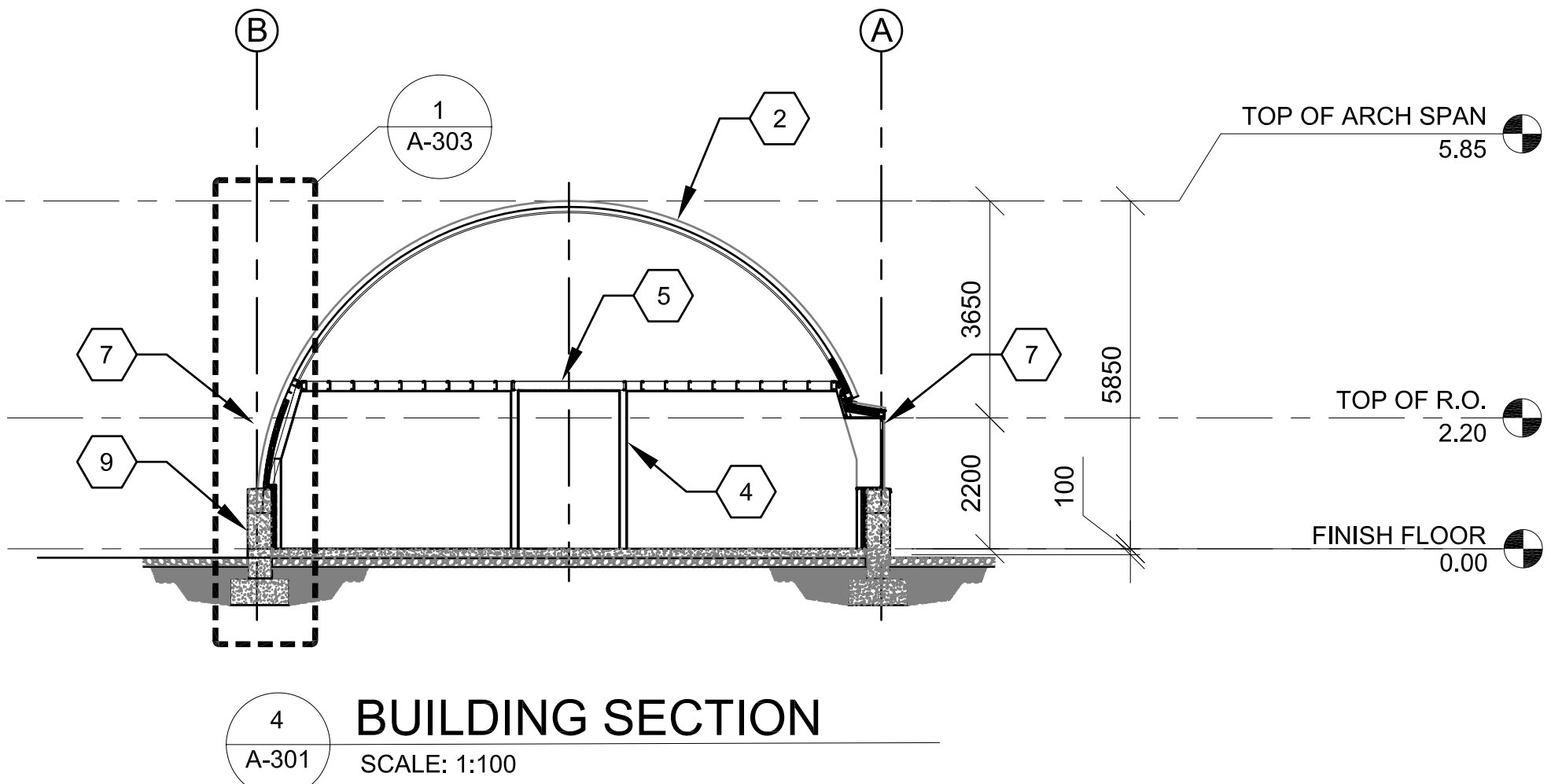
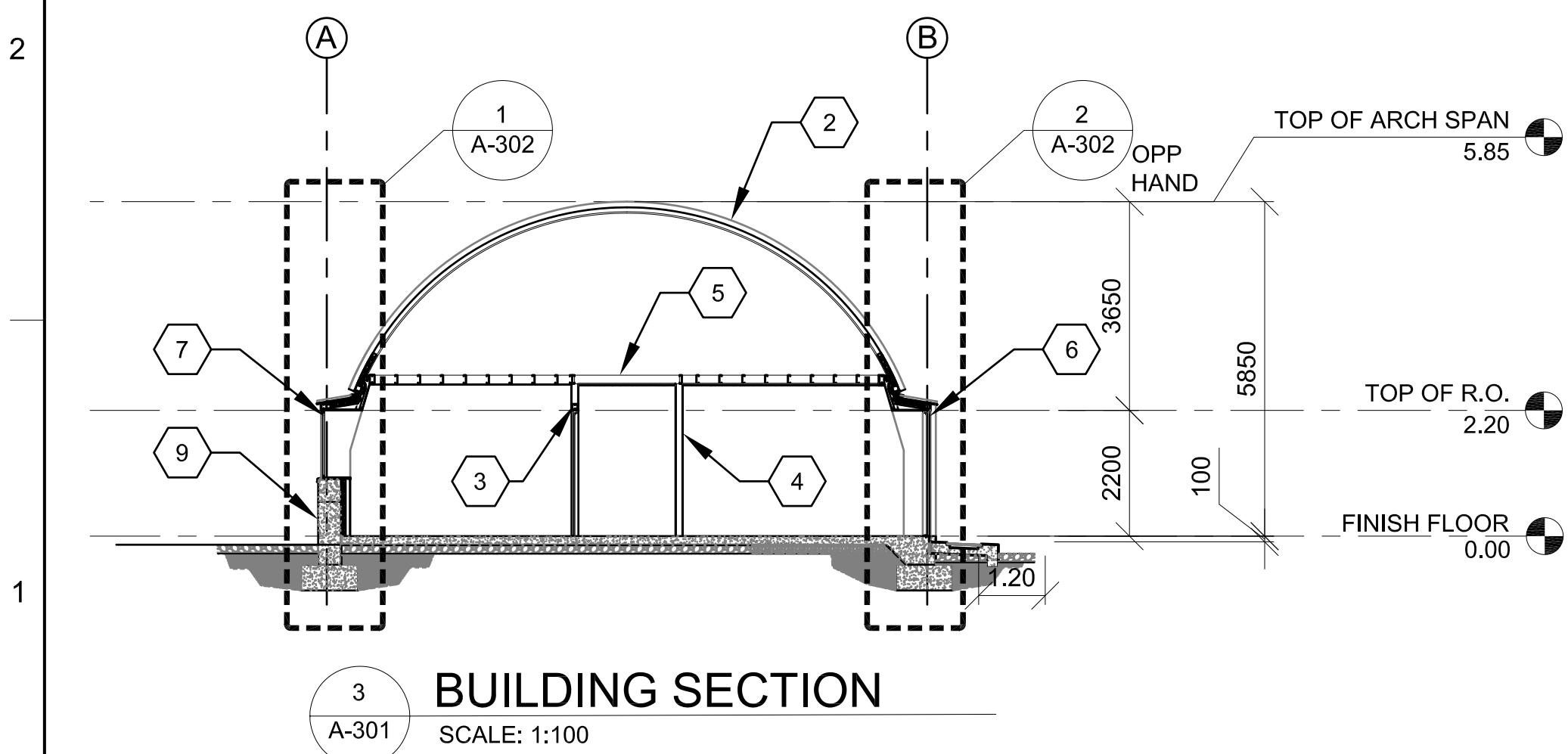
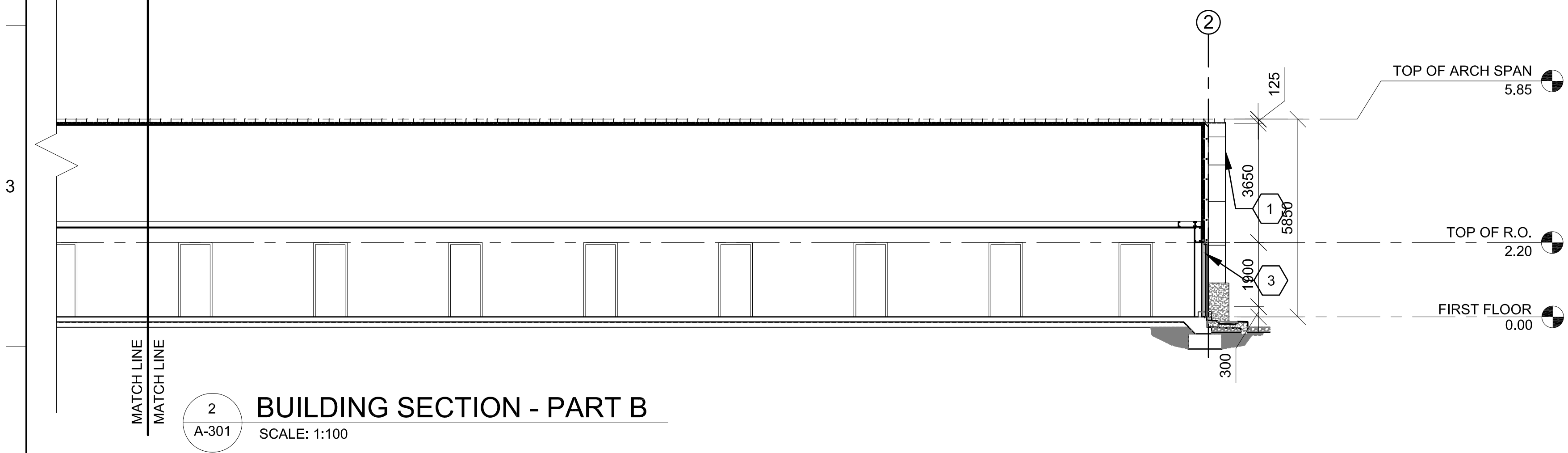
A-301



UNLESS OTHERWISE NOTED,
LINEAR DIMENSIONS
SHOWN ARE IN MILLIMETERS.



1. EXTENSION OF ARCH SPAN
2. K-SPAN ROOF/WALL PANEL WITH POLYURETHANE/CEMENTITIOUS SPRAY - ON FIRE BARRIER
3. HOLLOW METAL FRAME WITH DOOR AS SCHEDULED
4. PARTITION AS SCHEDULED
5. CEILING SYSTEM AS SCHEDULED
6. SIDEWALL DOOR AND DORMER FRAMING
7. SIDE WALL WINDOW AND DORMER FRAMING
8. NOT USED
9. CONCRETE STEM WALL



[illegible]

DESIGNED BY: PGS. SE. MR	DATE: 3-22-2011	REV. 0
DWN BY: OKD BY:	CONTRACT NO. 10312ER-09-D-0002	
PGS. SE. MR	DRAWING CODE	
REVIEWED BY:		
SUBMITTED BY:	FILE NAME: A0305PMR0001-1-A-302004	
	PLOT SCALE: 1/20	
	PLOT DATE: 1/20/2011	

U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN
CORPS OF ENGINEERS

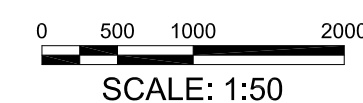
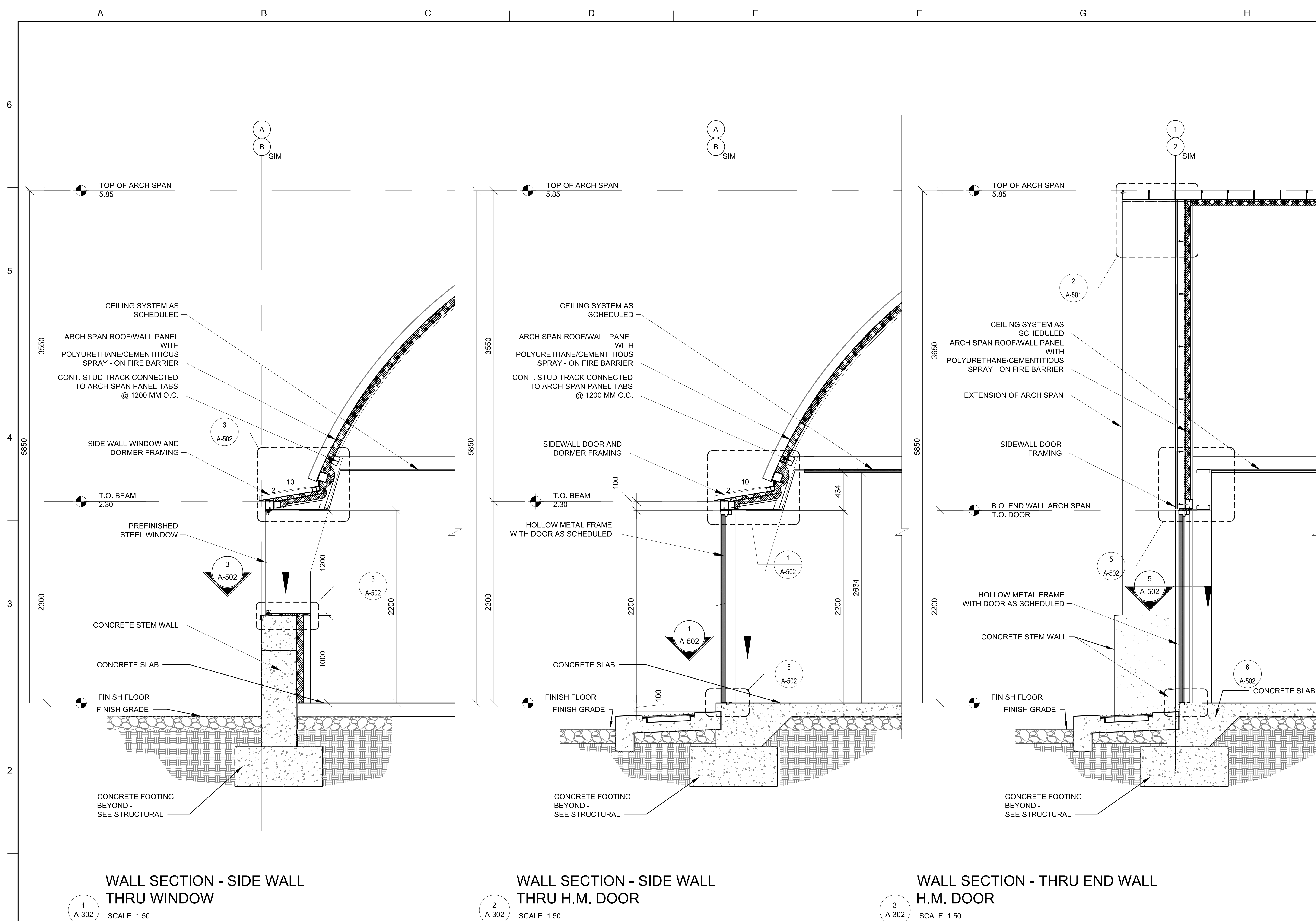
SITE ADAPT DESIGN

B21 - NCO BARRACKS - LARGE - ARCH SPAN

WALL SECTIONS

SHEET
REFERENCE
NUMBER:

A-302



UNLESS OTHERWISE NOTED,
LINEAR DIMENSIONS
SHOWN ARE IN MILLIMETERS.



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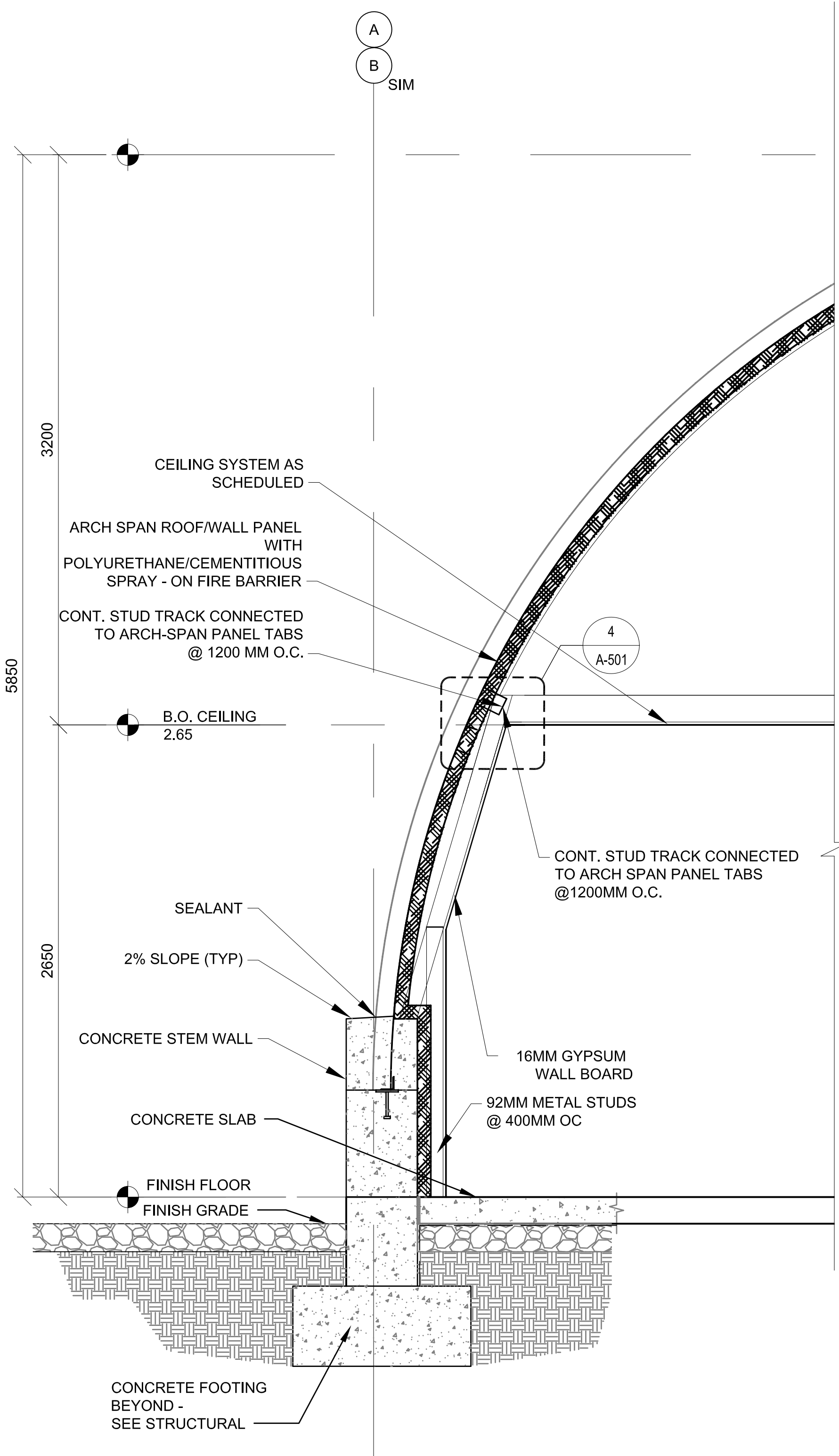
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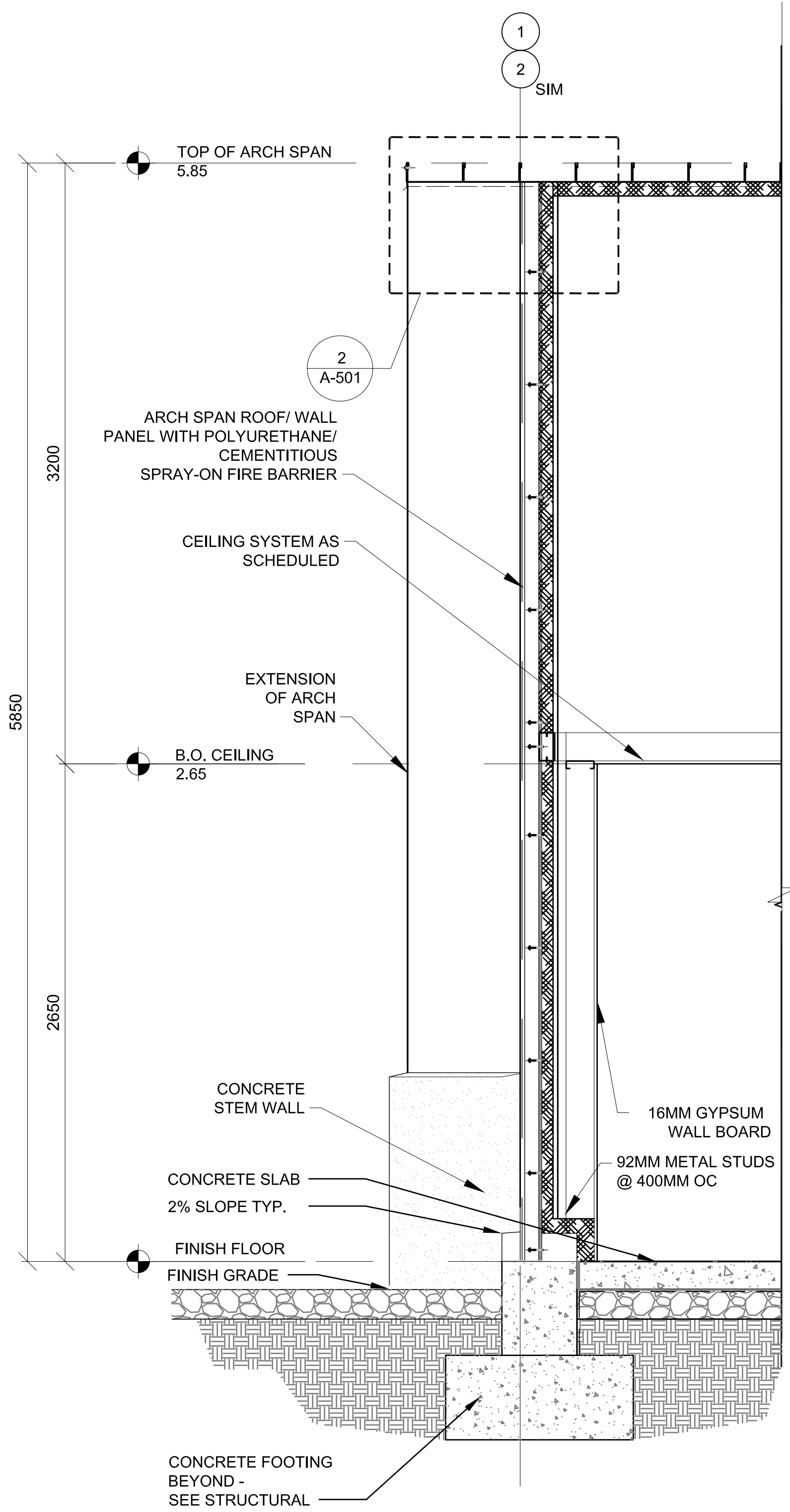
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WALL SECTION - SIDE WALL
THRU 1M STEM WALL

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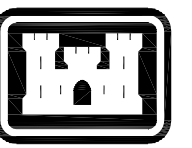
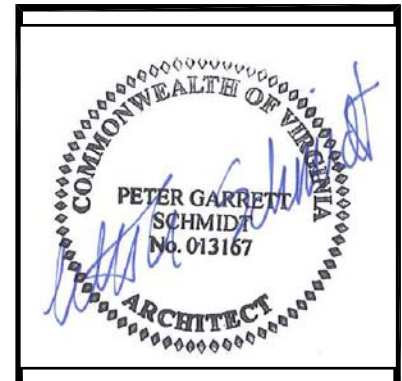


WALL SECTION - THRU END WALL

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A-303

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LINEAR DIMENSIONS
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US ARMY CORPS
OF ENGINEERS
AFGHANISTAN NORTH
DISTRICT

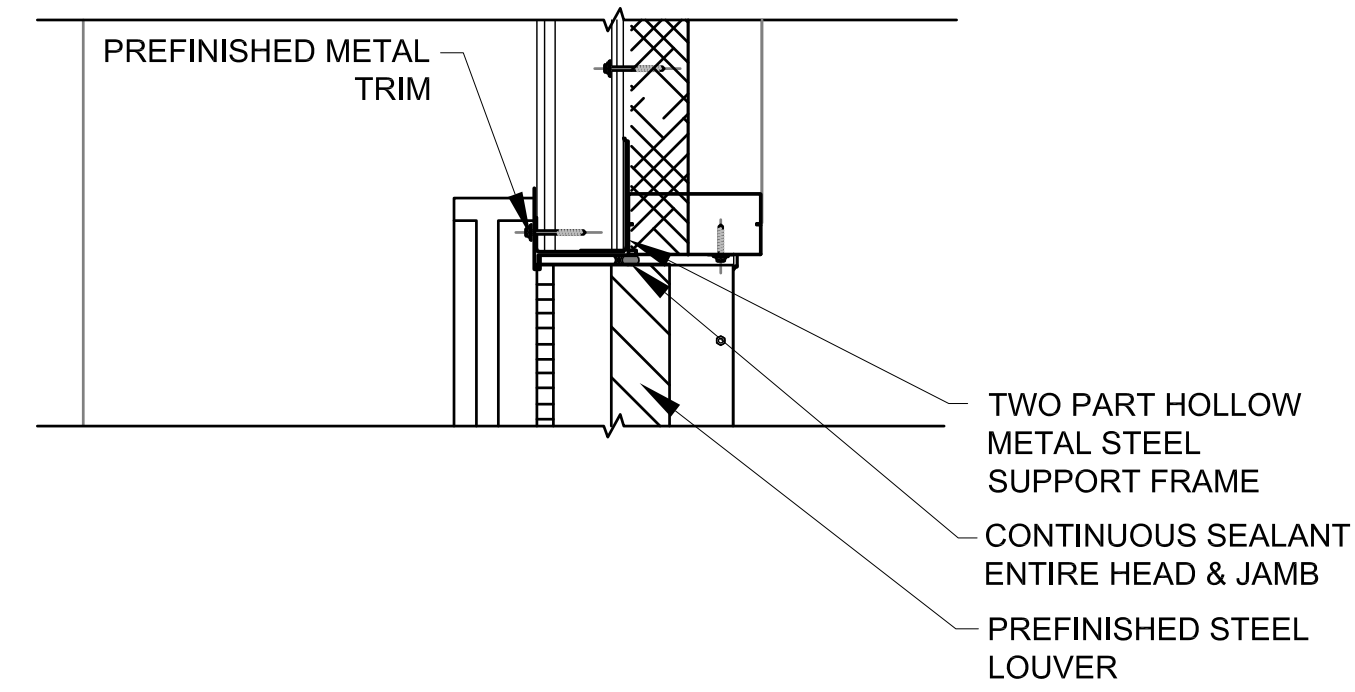
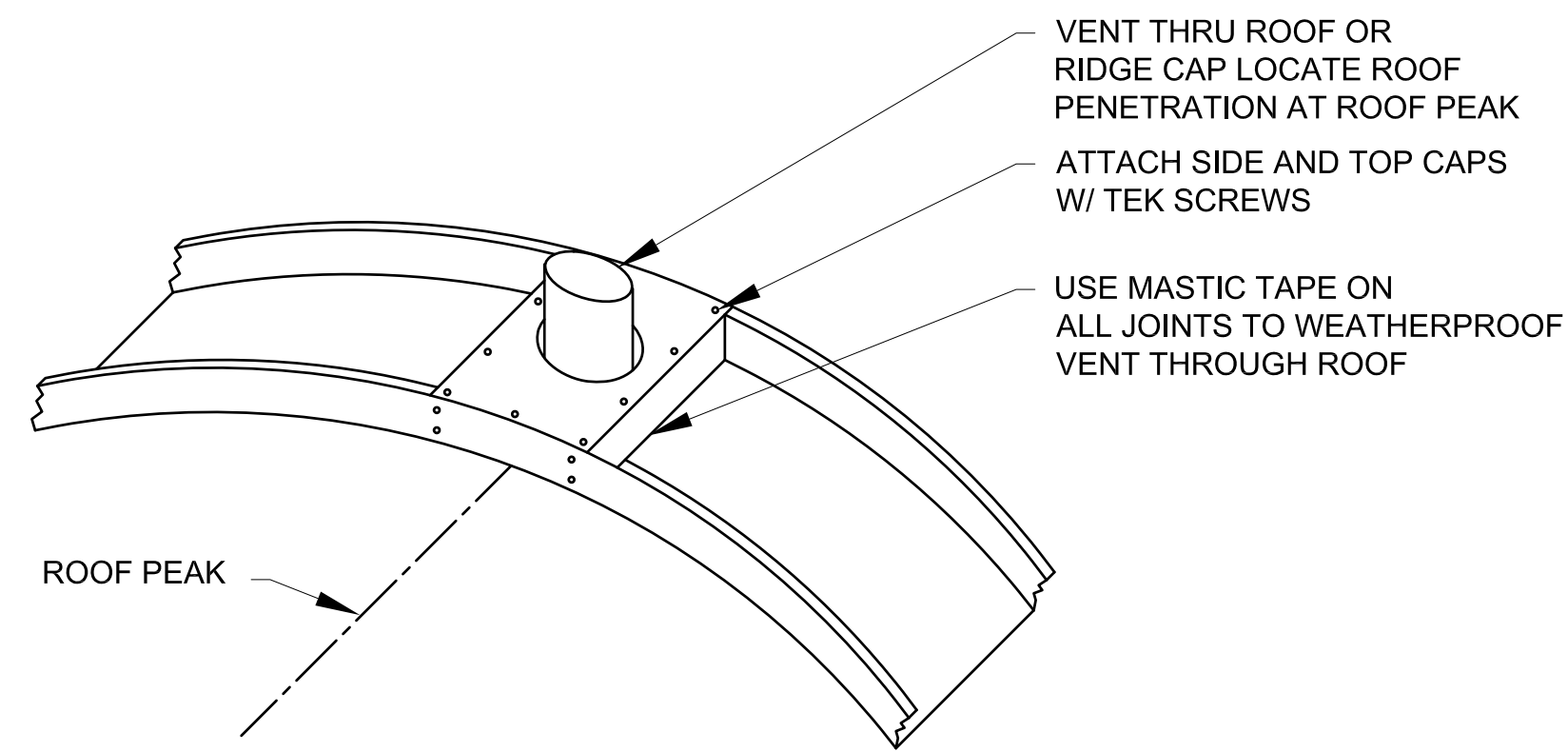
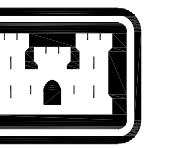
REV	DATE	DESCRIPTION	SYMBOL	DATE	APPROVED
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DESIGNED BY: PSS, SE, MR	DATE: 3-22-2011	REV 0
DWN BY: SE, MDH, AH	CONTRACT NO. W912ER-09-D-0002	
REVIEWED BY:	DRAWING CODE:	
SUBMITTED BY: BAKER	FILE NAME: AFGHANISTAN NORTH DISTRICT	
	PLOT SCALE: 1:50	
	PLOT DATE: 3/22/2011	

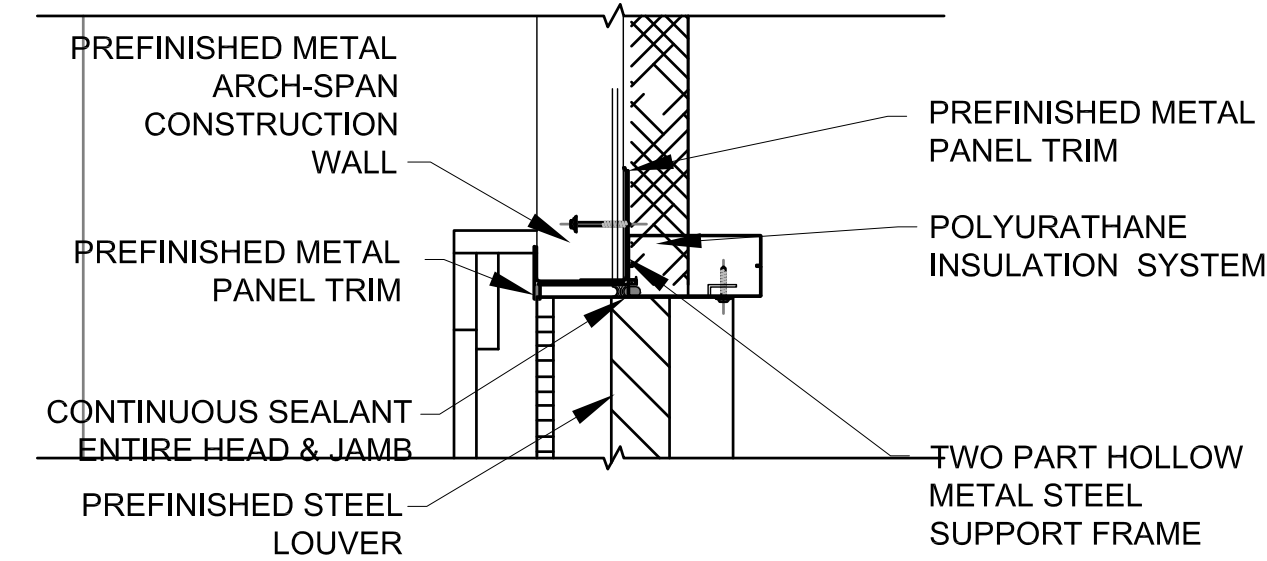
U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN CORPS OF ENGINEERS APO AE 09356
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SITE ADAPT DESIGN B21 - NCO BARRACKS - LARGE - ARCH SPAN WALL SECTIONS
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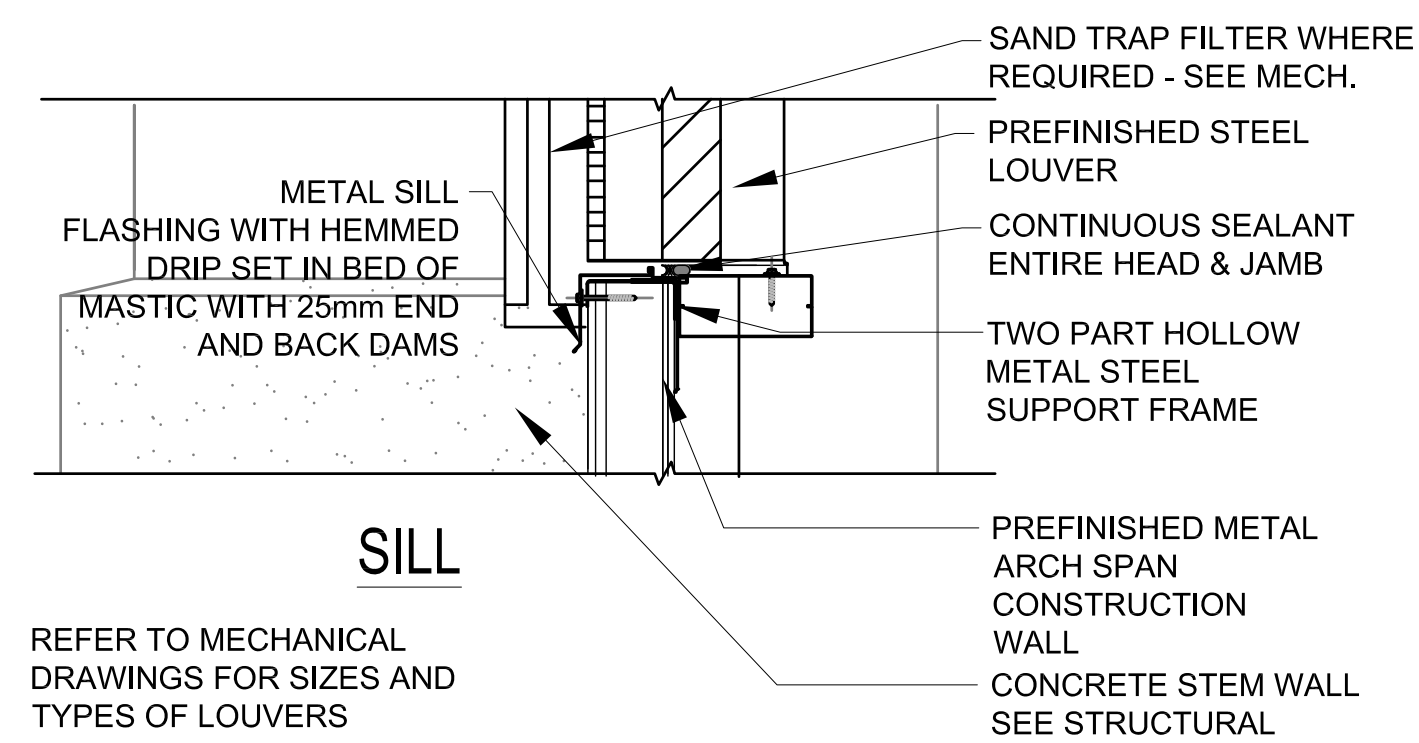
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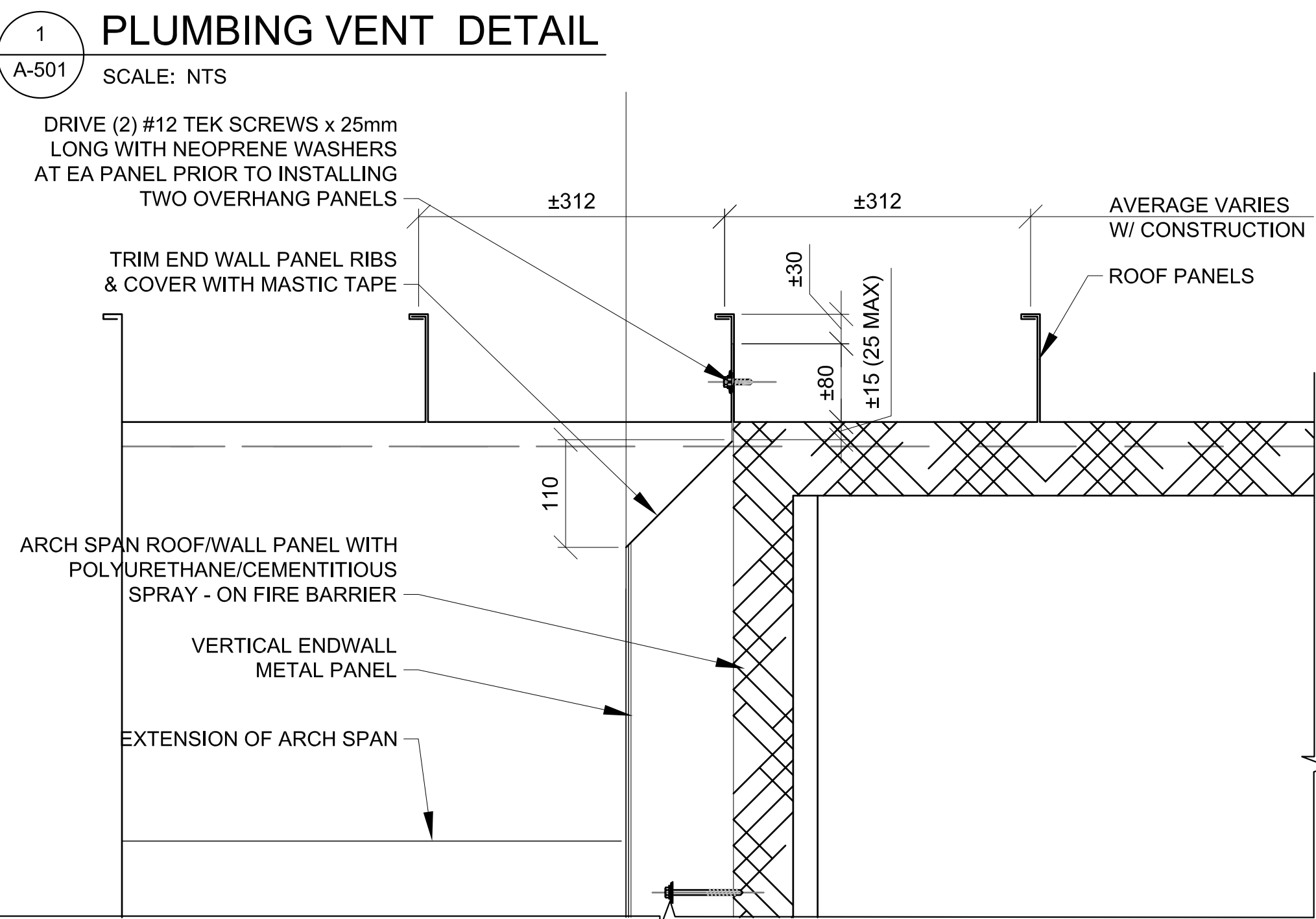
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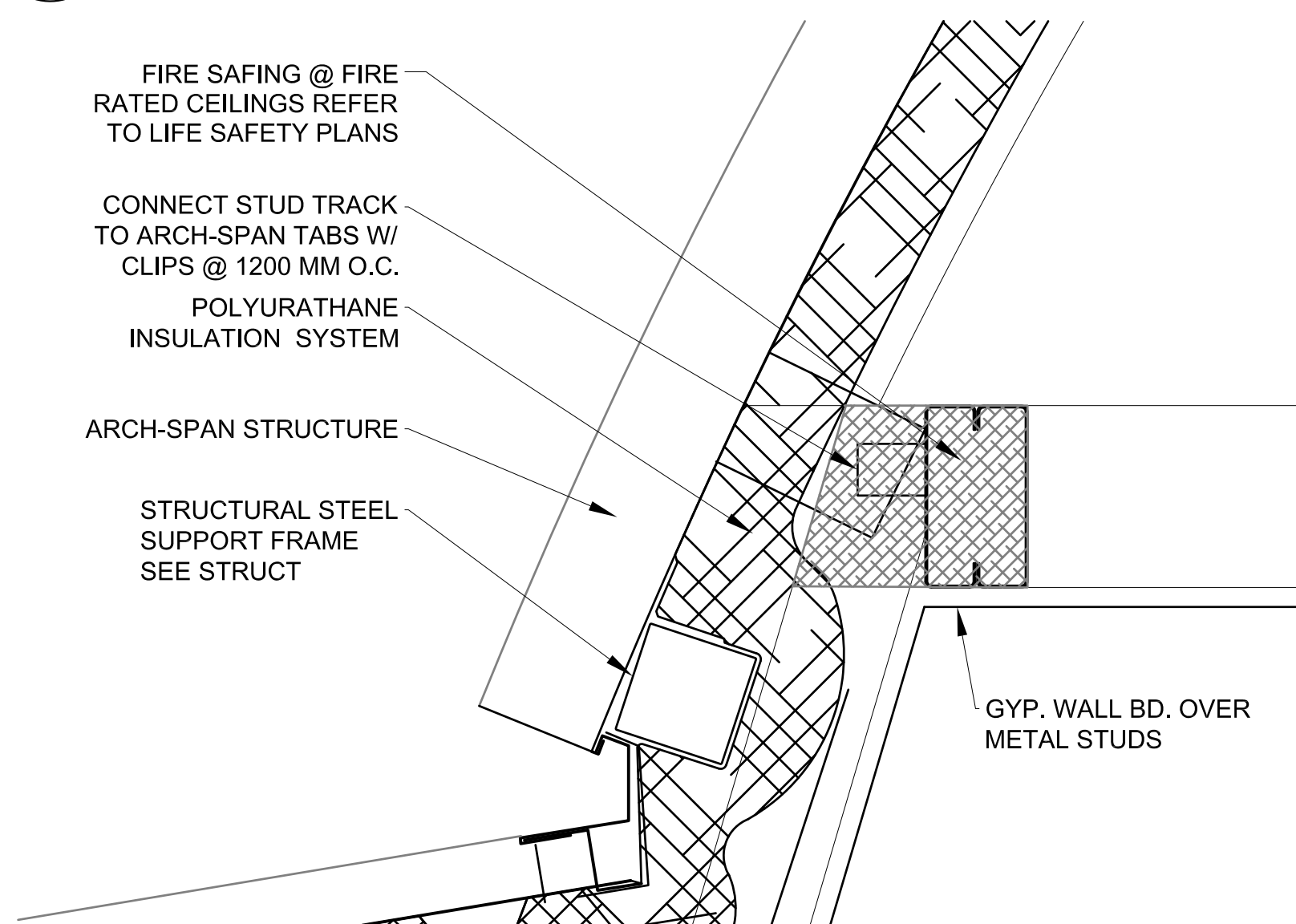
JAMB



LOUVER EXTERIOR DETAIL



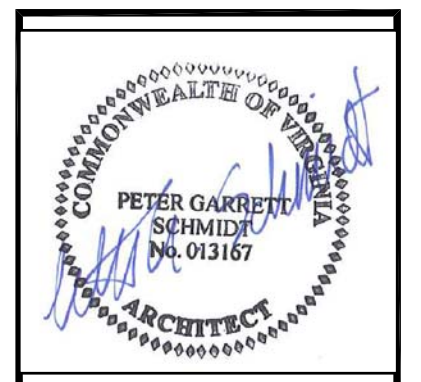
END WALL ROOF DETAIL



CEILING ARCH-SPAN CONNECTION



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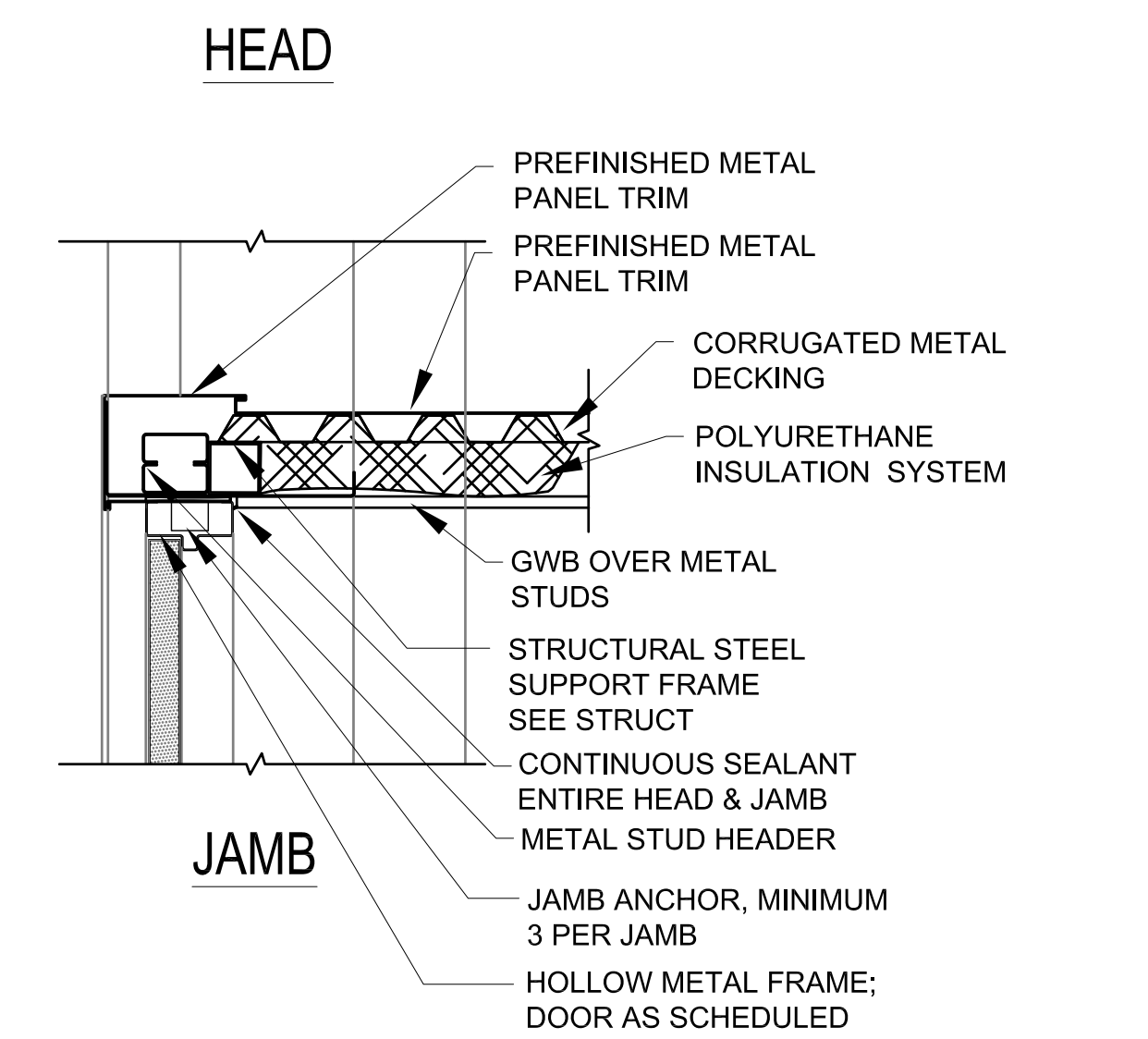
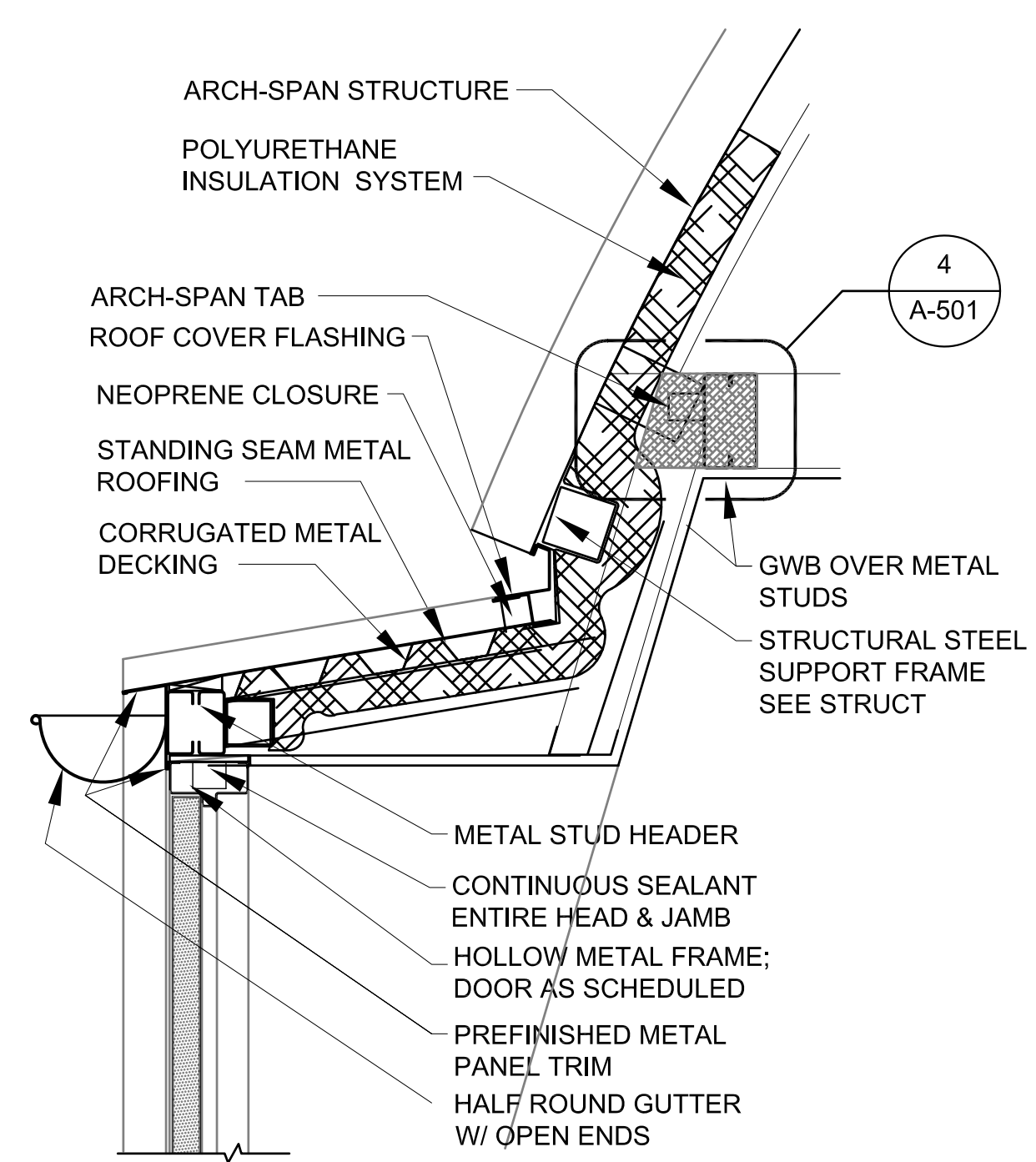


B21 - NCO BARRACKS - LARGE - ARCH SPAN
EXTERIOR DETAILS

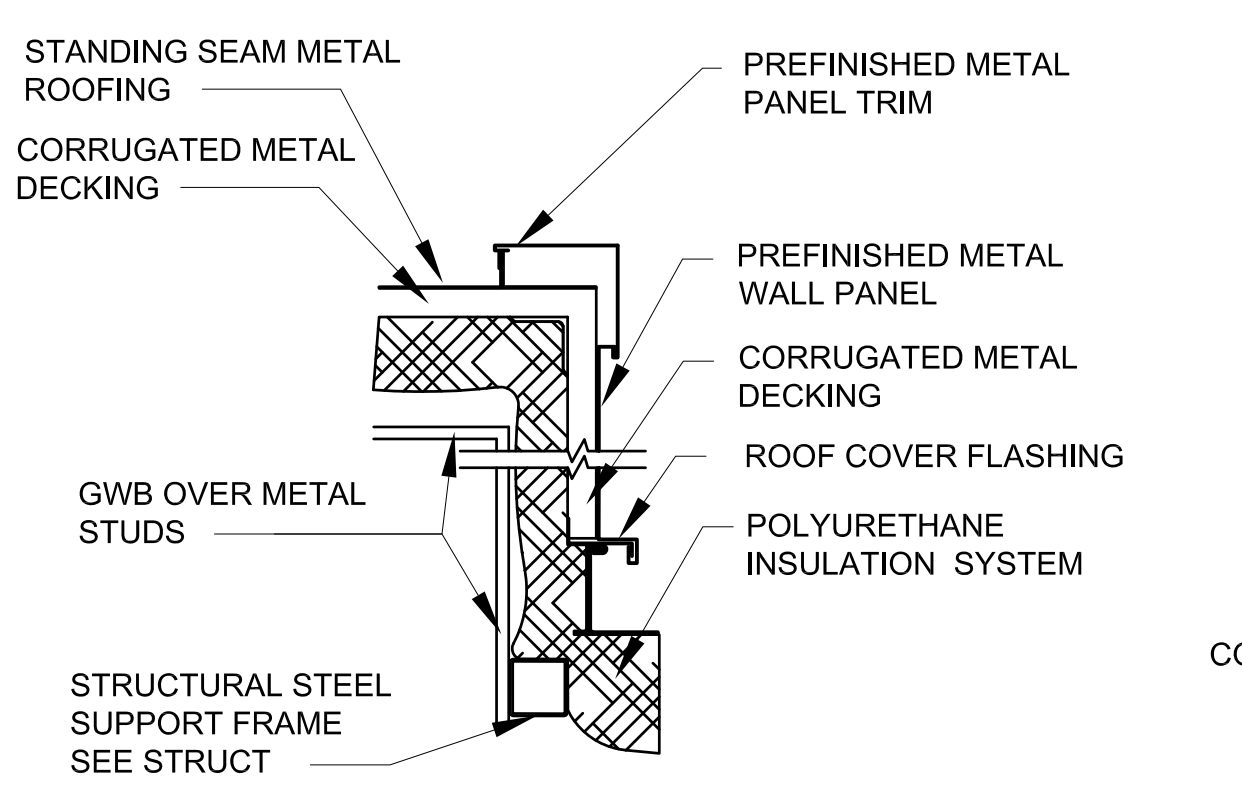
SHEET
REFERENCE
NUMBER:

A-501

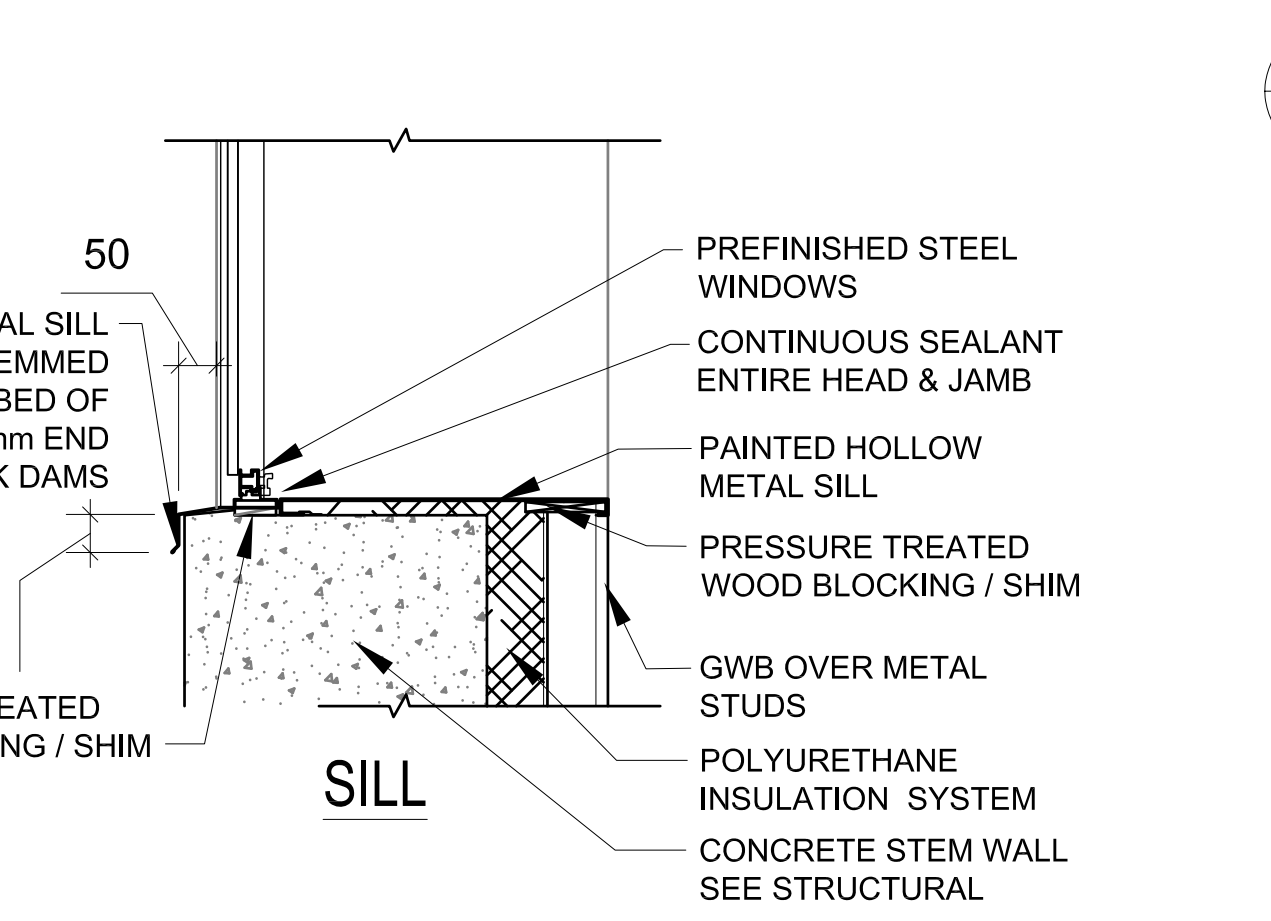
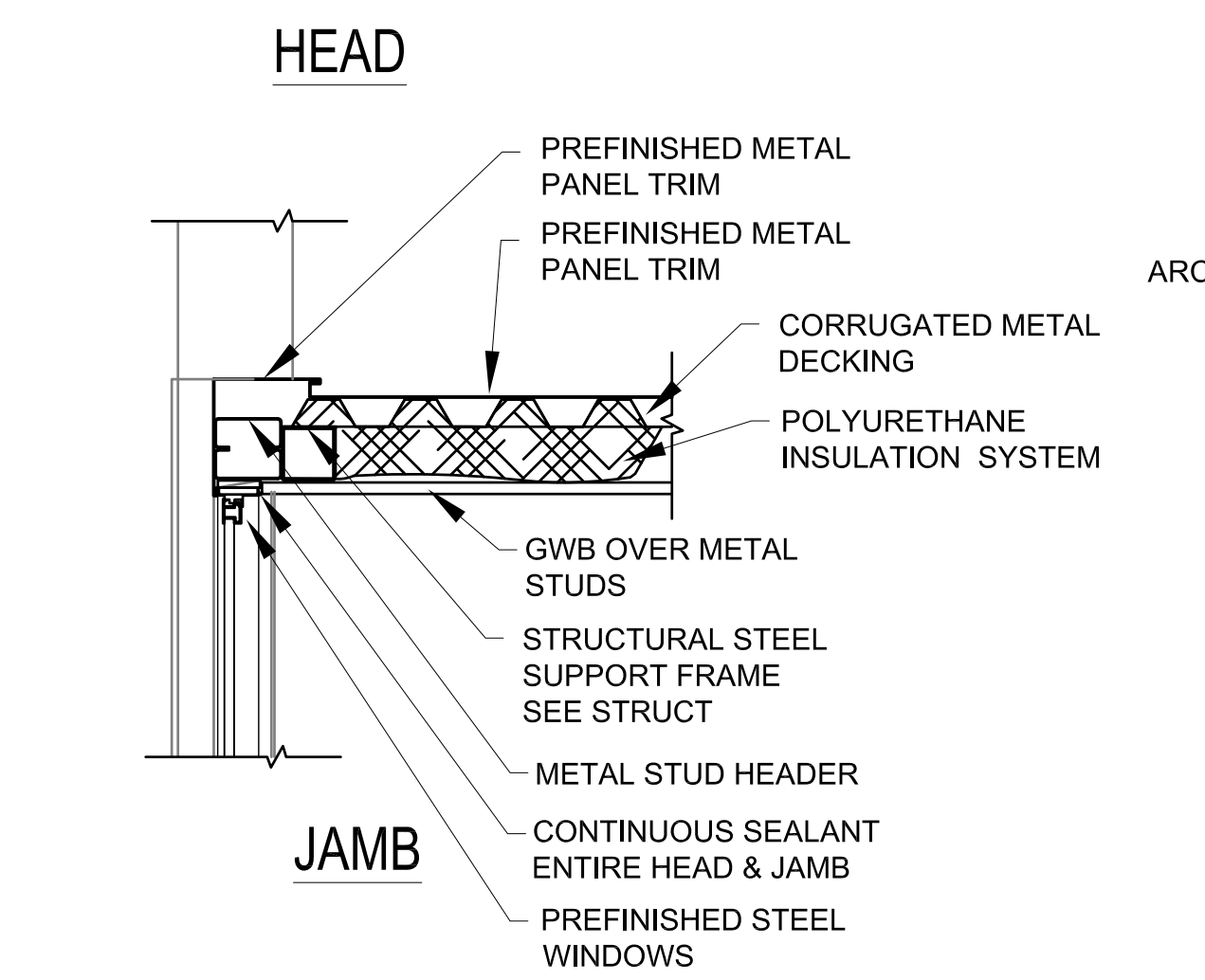
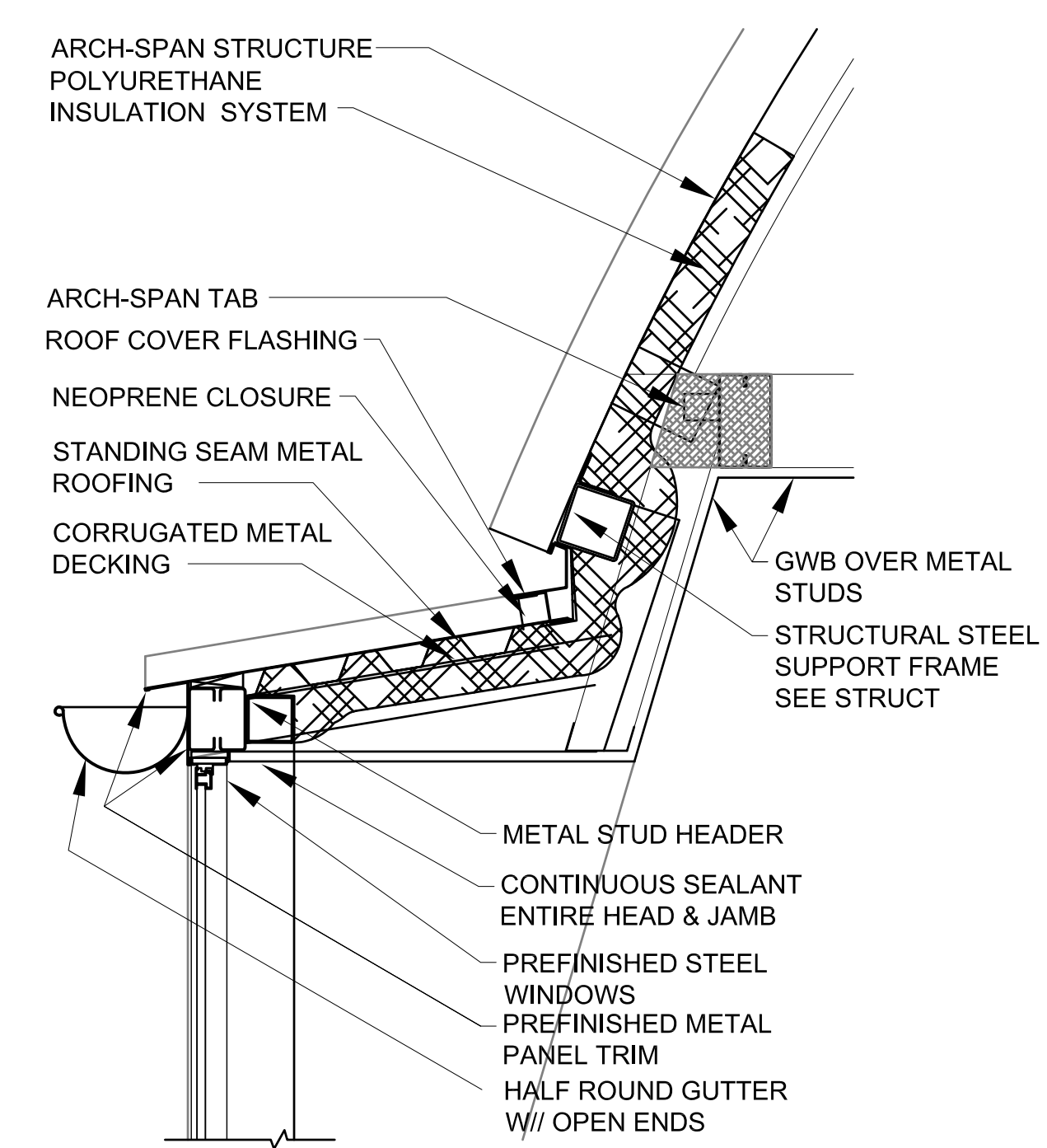
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1 EXTERIOR DOOR DETAILS
A-502 SCALE: 1:10



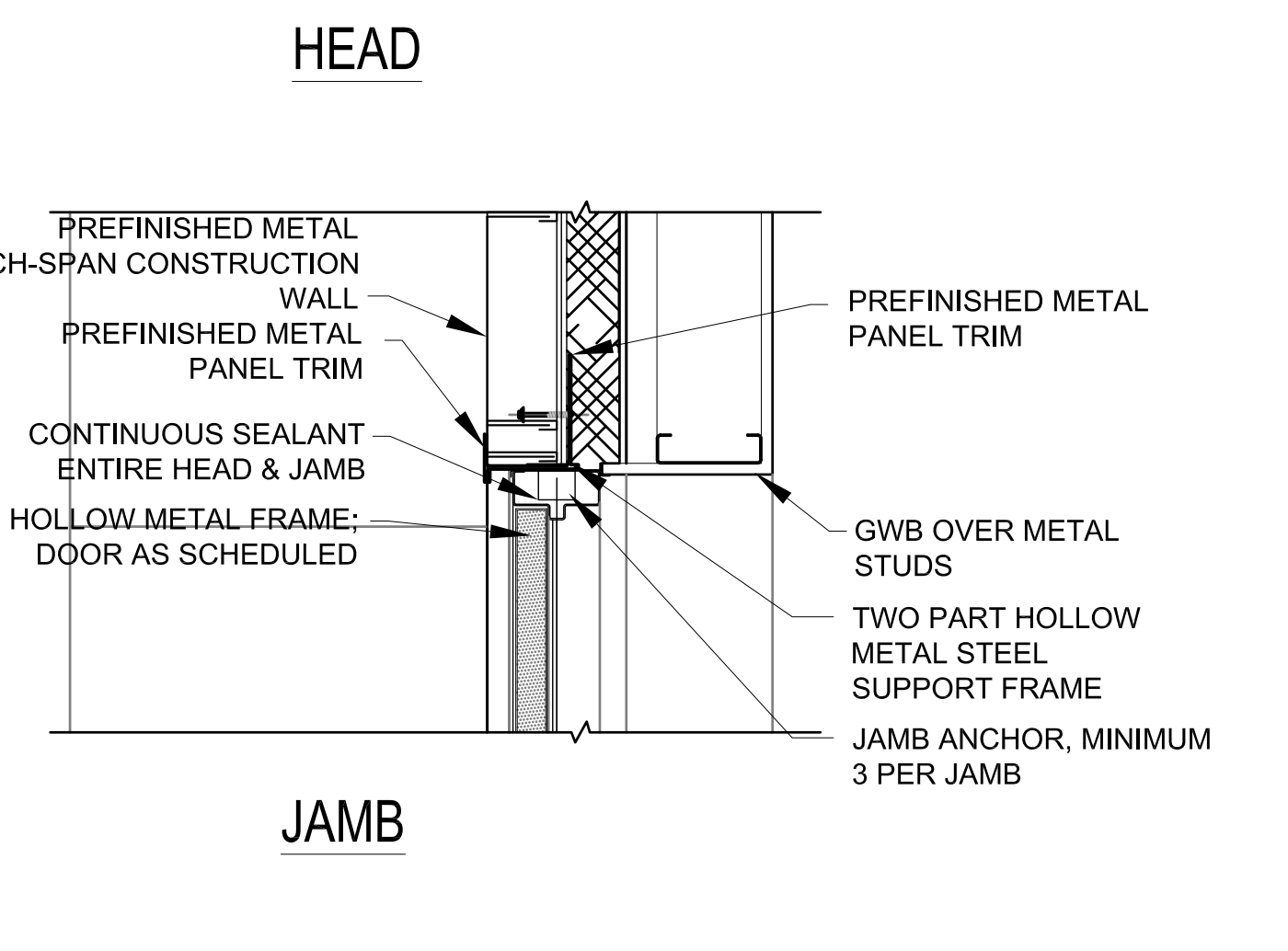
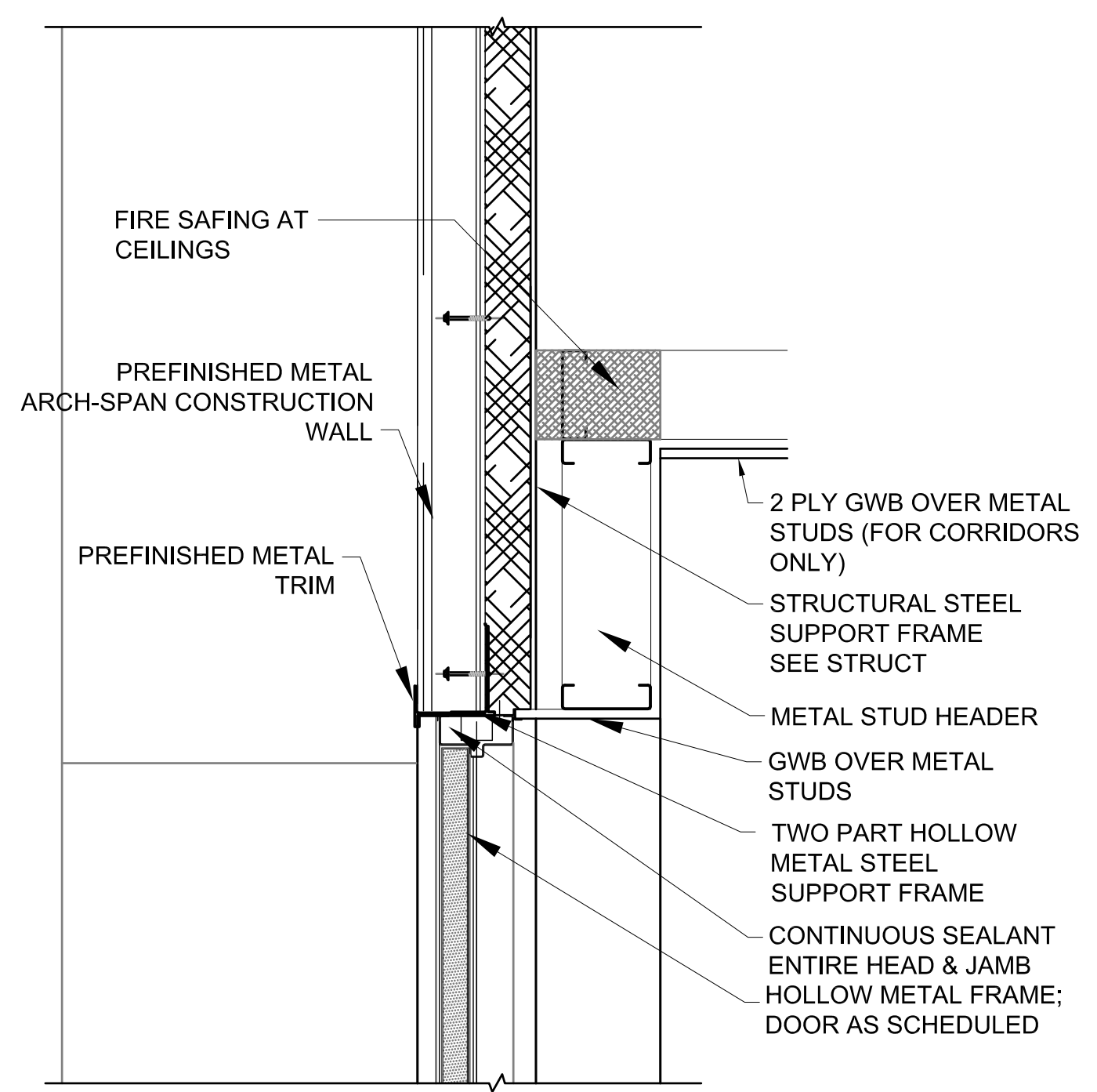
2 DORMER DETAILS
A-502 SCALE: 1:10



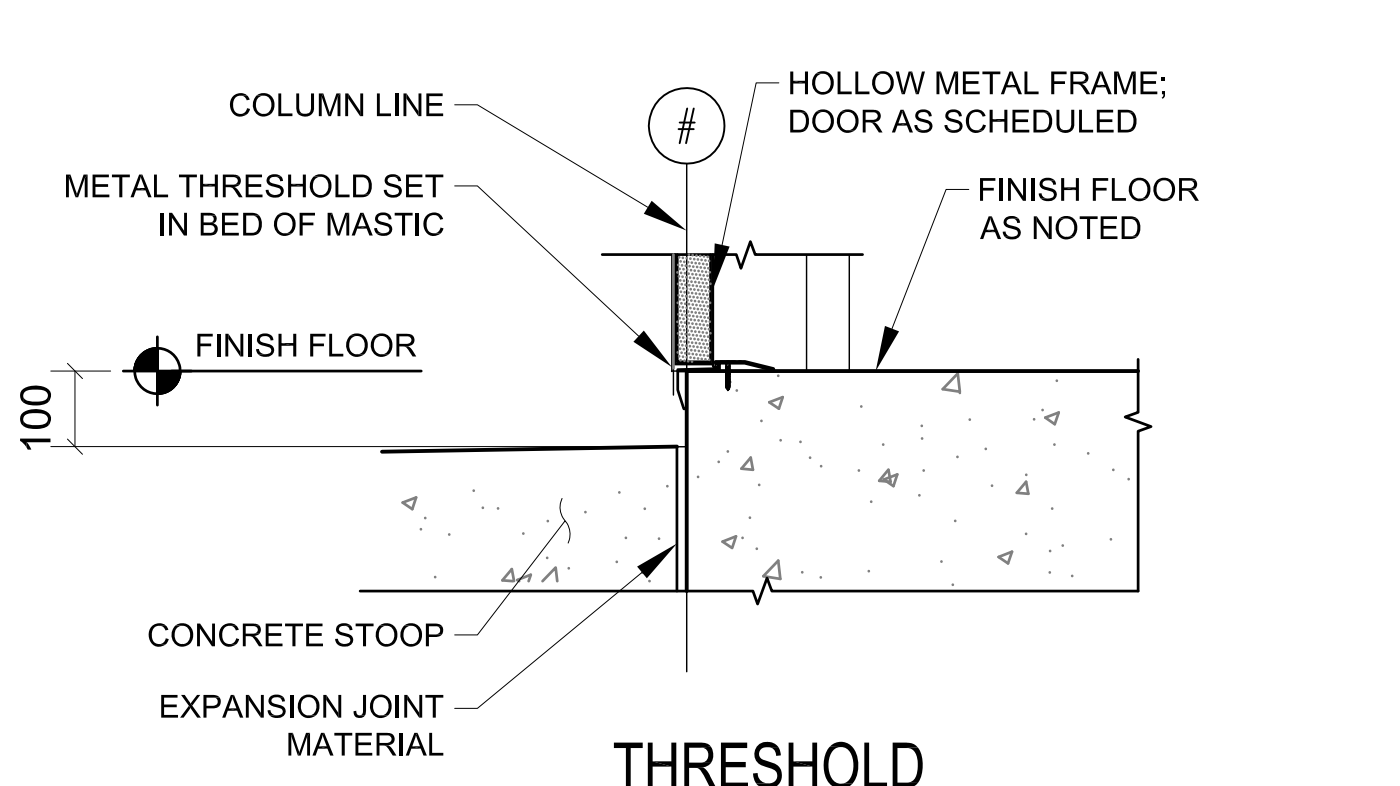
3 EXTERIOR WINDOW DETAILS
A-502 SCALE: 1:10



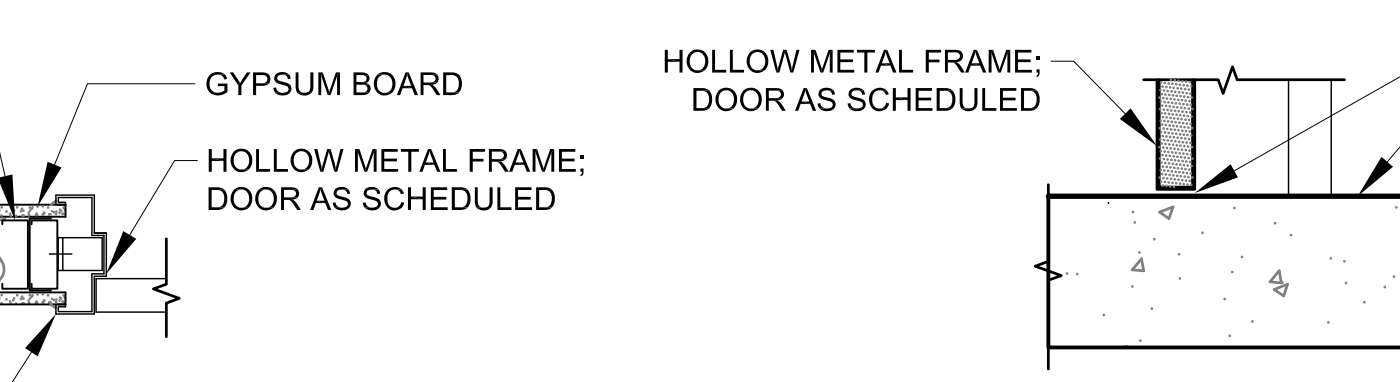
4 INTERIOR WALL DETAILS
A-502 SCALE: 1:10



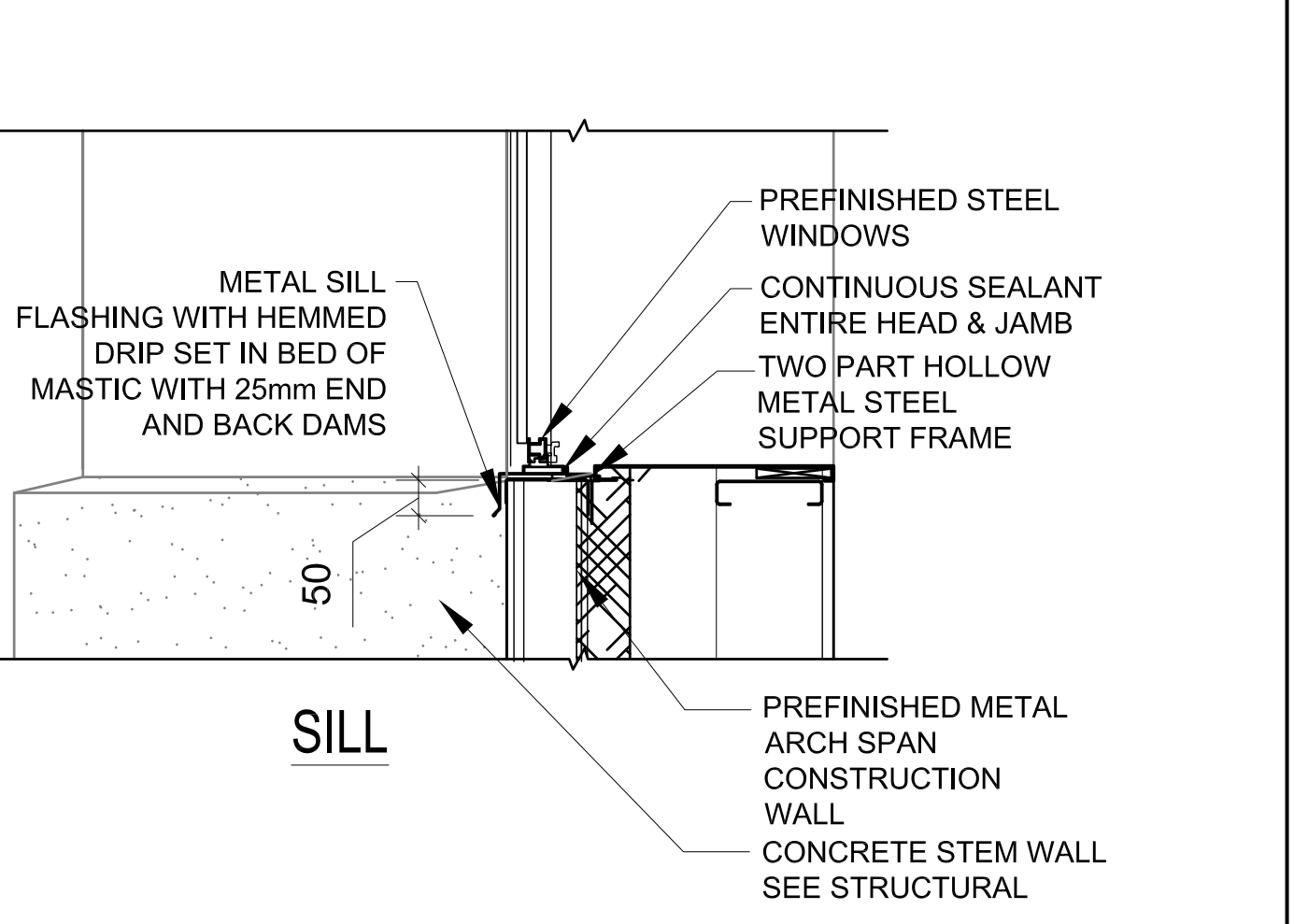
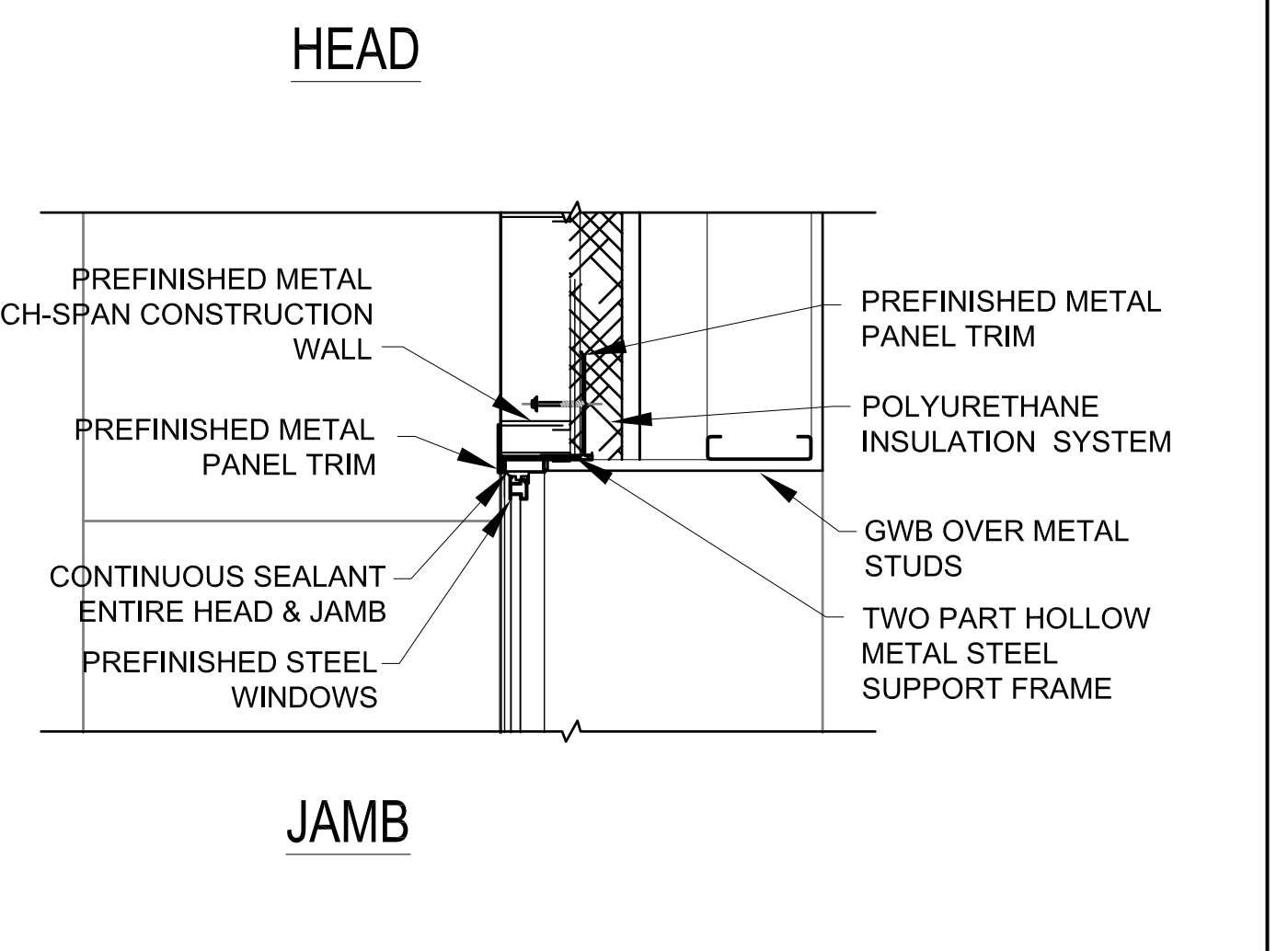
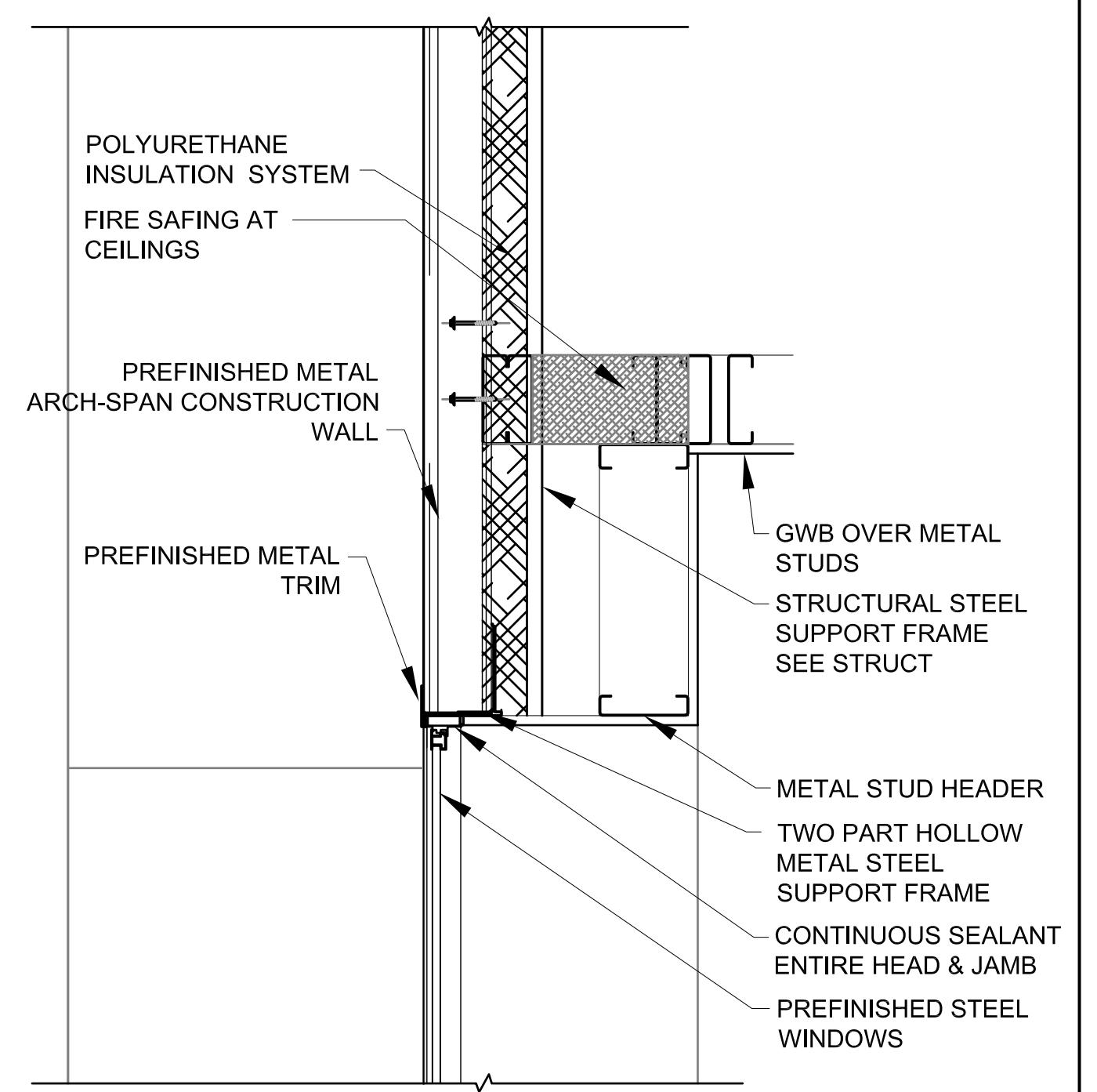
5 END WALL EXTERIOR DOOR DETAILS
A-502 SCALE: 1:10



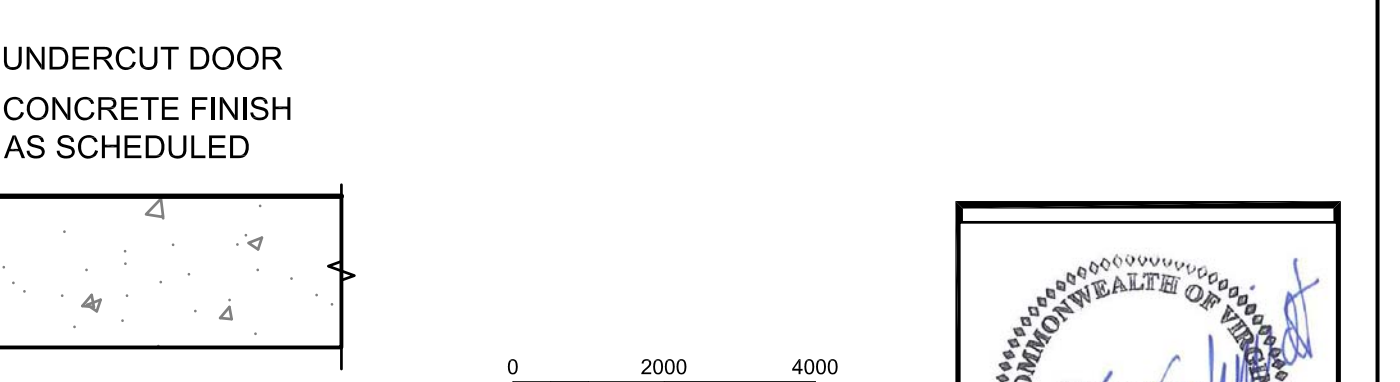
6 EXTERIOR DOOR DETAILS
A-502 SCALE: 1:10



7 INTERIOR DOOR DETAILS
A-502 SCALE: 1:10



8 EXTERIOR WINDOWS DETAILS
A-502 SCALE: 1:10



8 EXTERIOR WINDOWS DETAILS
A-502 SCALE: 1:10

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SCALE: 1:100

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U.S. ARMY CORPS OF ENGINEERS
AFGHANISTAN NORTH DISTRICT

REV	DATE	DESCRIPTION
0	3/22/2011	W912ER-09-D-0002

DESIGNED BY: PGS, SE, MR
DWG BY: SE, MDH, AH
CHECKED BY: PGS, SE, MR
REVIEWED BY: PGS, SE, MR
SUBMITTED BY: PGS, SE, MR

FILE NAME: ARCH-SPAN-DOOR-A-502
PLOT SCALE: 1:10
PLOT DATE: 3/22/2011

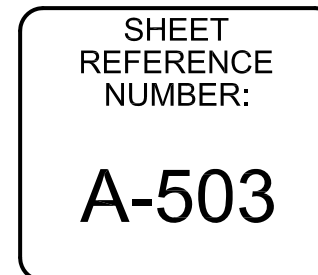
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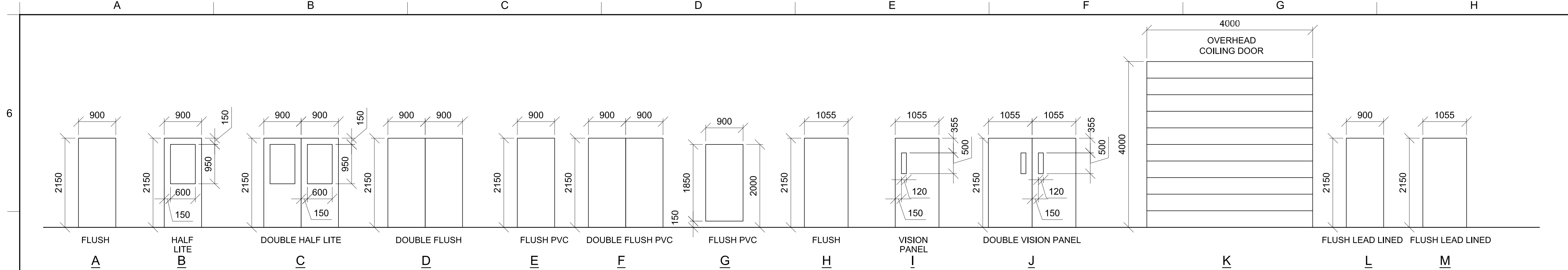
SITE ADAPT DESIGN
B21 - NCO BARRACKS - LARGE - ARCH-SPAN
HEAD, JAMB, & SILL DETAILS

SHEET
REFERENCE
NUMBER:
A-502



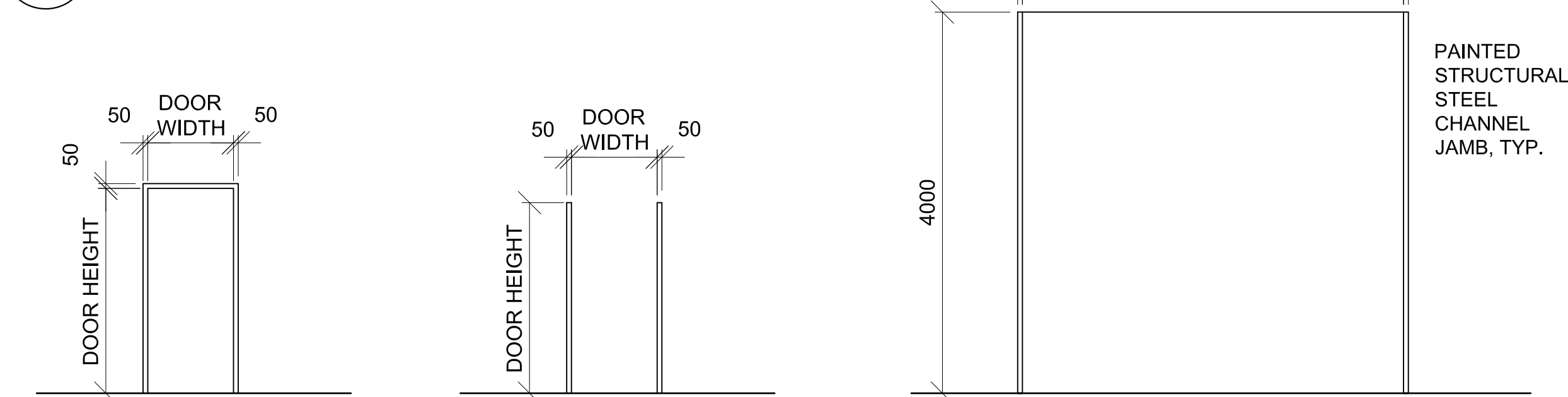
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 PETER GARRETT
 SCHMIDT
 No. 013167
 ARCHITECT





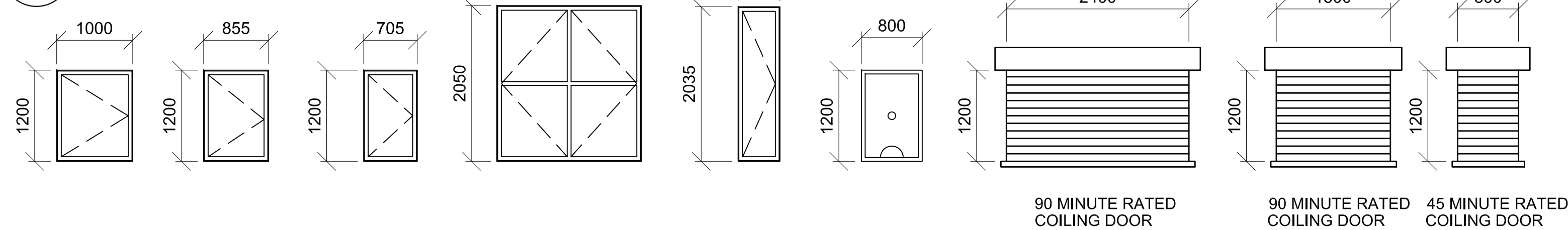
1 DOOR TYPES

A-601 SCALE: 1:50



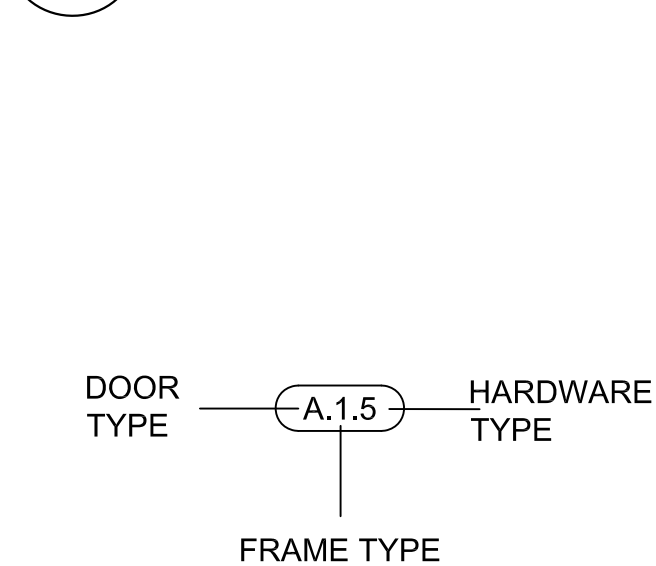
2 FRAME TYPES

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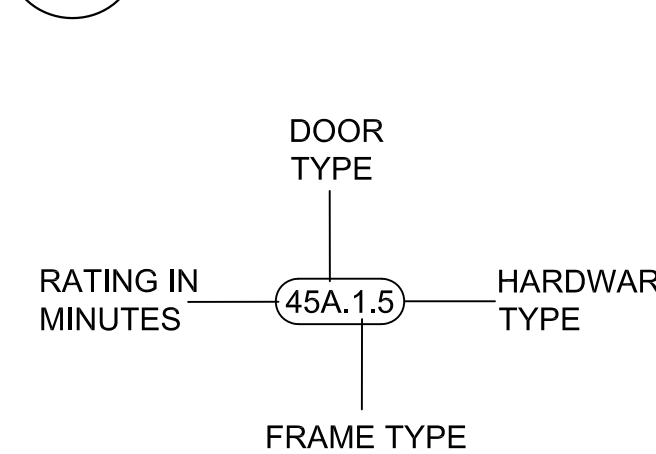
3 WINDOW TYPES

A-601 SCALE: 1:50



4 DOOR TAG

A-601 SCALE: 1:50



5 RATED DOOR TAGS

A-601 SCALE: NTS

WINDOW TYPE NOTES:

1. ALL EXTERIOR WINDOWS SHALL BE STEEL. PROVIDE INSECT SCREENS ONLY AT DFAC FACILITIES. WINDOW SHALL BE COMMERCIAL GRADE.
2. ALL EXTERIOR WINDOWS SHALL BE OPERABLE.
3. WINDOWS IN LATRINES OR RESTROOM AREAS SHALL HAVE OBSCURE GLASS.

DOOR TAG NOTES:

1. THE DOOR TAG INDICATES THE DOOR TYPE, FRAME TYPE AND HARDWARE SET FOR EACH DOOR.
2. THE DOOR TAG FOR RATED DOORS INCLUDES THE RATING OF THE DOOR IN MINUTES.
3. REFER TO FLOOR PLANS FOR DOOR TAG INFORMATION APPLICABLE TO EACH DOOR.

DOOR AND HARDWARE NOTES:

1. INTERIOR AND EXTERIOR METAL DOORS AND FRAME COLORS SHALL MATCH ADJACENT WALL COLORS AS SELECTED BY THE CONTRACTING OFFICER.
2. FRAMES, EXCEPT FIRE-RATED FRAMES, SHALL BE MOUNTED AND ADJUSTED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. FRAMES SHALL BE FASTENED WITH MINIMUM OF THREE ANCHORS PER JAMB AT EQUAL INTERVALS.
3. DIMENSIONS SHOWN ON DOOR TYPES DETAIL ARE BASED UPON MODULAR MASONRY (OR ROUGH OPENING), HEIGHT OF 2150 MM FOR STANDARD PERSONNEL DOORS. CONTRACTOR SHALL COORDINATE WITH DOOR SUPPLIER TO ENSURE THAT DIMENSIONS OF DOORS AND FRAMES PROVIDED ARE COMPATIBLE WITH DOOR OPENING DIMENSIONS.
4. HARDWARE SHALL BE HEAVY DUTY, COMMERCIAL GRADE, STAINLESS STEEL WITH A SATIN OR BRUSHED FINISH.
5. HARDWARE TYPES INCLUDE BUILDERS HARDWARE MANUFACTURERS ASSOCIATION (BMHA) NUMBER.
6. DOORS IN 2 HOUR RATED PARTITIONS SHALL BE 1.5 HOUR (90 MINUTE) RATED DOORS IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
7. DOORS IN 1 HOUR RATED WALLS SHALL BE 3/4 HOUR (45 MINUTE) RATED DOORS IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
8. DOORS IN 1 HOUR RATED CORRIDOR WALLS SHALL BE 1/3 HOUR (20 MINUTE) IN ACCORDANCE WITH NFPA 101, TABLE 8.3.4.2.
10. PROVIDE DOOR STOPS TO PROTECT WALLS ON LOCATIONS WHERE DOOR SWING WILL STRIKE WALL.
11. FIRE RATED DOORS SHALL HAVE RATED GLASS NOT EXCEEDING ALLOWABLE SIZE PER NFPA 80. (836,125MM2 FOR MIN. DOORS & 64,500MM2 FOR 45 MIN OR GREATER DOORS)
12. DOOR TYPES ARE NOT APPLICABLE AT ALL BUILDINGS. SEE FLOOR PLAN FOR REQUIREMENTS
13. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS OF UNDERCUT DOORS

EXTERIOR DOOR HARDWARE TYPES:

- HW-1 1-1/2 PR HINGES, A5112 114 X 114 (SINGLE EXIT DOOR)
1 EA RIM EXIT DEVICE, TYPE 1
1 EA CYLINDER, E09221A, GRADE 1
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA THRESHOLD, J32130
3 EA DOOR SILENCERS, L03011
- HW-2 1-1/2 PR HINGES, A5112 114 X 114 (SINGLE ENTRY DOOR)
1 EA LOCKSET, F13 ENTRY LOCK W/LEVER HANDLES, GRADE 1
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA THRESHOLD, J32130
3 EA DOOR SILENCERS, L03011
- HW-3 3 PR HINGES, A5112 114 X 114 (DOUBLE EXIT DOOR)
2 EA RIM EXIT DEVICE, TYPE 1
2 EA CYLINDER, GRADE 1
2 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA DOOR COORDINATOR, TYPE 21
1 EA ASTRAGAL
1 EA THRESHOLD, J32130
2 EA DOOR SILENCERS, L03011
- HW-4 3 PR HINGES, A5112 114 X 114 (DOUBLE DOOR DORMITORY FUNCTION)
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F13
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
2 EA MAGNETIC HOLDER PIN, ATTACHED TO DOOR LEAF
2 EA MAGNETIC HOLDER RECEIVER, ATTACHED TO STOOP
2 EA LEVER EXTENSION FLUSH BOLTS, L04081
1 EA ASTRAGAL
1 EA THRESHOLD, J32130
2 EA DOOR SILENCERS, L03011

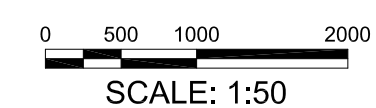
INTERIOR DOOR HARDWARE TYPES:

- | | | | |
|-------|--|-------|---|
| HW-5 | 1-1/2 PR HINGES, A8133 114 X 114 (SINGLE FRONT DOOR FUNCTION)
1 EA LOCKSET W/LEVER HANDLES, F08, GRADE 1
1 EA WALL STOP, L02101 OR L02161
3 EA DOOR SILENCERS, L03011 | HW-14 | 3 PR HINGES, A5112 114 X 114 (DOUBLE EGRESS EXIT DOOR)
2 EA VERTICAL ROD EXIT DEVICE, TYPE 1
2 EA CYLINDER, GRADE 1
2 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA DOOR COORDINATOR, TYPE 21
1 EA ASTRAGAL
2 EA DOOR SILENCERS, L03011 |
| HW-5A | 1-1/2 PR HINGES, A8133 114 X 114 (SINGLE OFFICE FUNCTION)
1 CLOSER
1 EA LOCKSET W/LEVER HANDLES, F05, GRADE 1
1 EA WALL STOP, L02101 OR L02161
3 EA DOOR SILENCERS, L03011 | HW-15 | 3 PR HINGES, A5112 114 X 114 (DOUBLE STOREROOM FUNCTION)
2 CLOSERS
1 COORDINATOR
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F7
2 EA LEVER EXTENSION FLUSH BOLTS, L04081
1 EA ASTRAGAL
2 EA DOOR SILENCERS, L03011 |
| HW-6 | 1-1/2 PR HINGES, A8112 114 X 114 (SINGLE STOREROOM FUNCTION)
1 CLOSER
1 EA LOCKSET W/LEVER HANDLES, F07, GRADE 1
1 EA WALL STOP, L02101 OR L02161
3 EA DOOR SILENCERS, L03011 | | |
| HW-7 | 1-1/2 PR HINGES, A8133 (SINGLE PASSAGE FUNCTION)
1 CLOSER
1 EA LOCKSET W/LEVER HANDLES, F01 GRADE 1
1 EA WALL STOP, L02101 OR L02161
2 EA MOP PLATE, J103
3 EA DOOR SILENCERS, L03011 | | |
| HW-7A | 1-1/2 PR HINGES, A8133 (SINGLE PASSAGE FUNCTION)
1 CLOSER
1 EA LOCKSET W/LEVER HANDLES, F01 GRADE 1
1 EA WALL STOP, L02101 OR L02161
3 EA DOOR SILENCERS, L03011 | | |
- THIS SHEET IS STANDARD AND IS INCLUSIVE OF ALL THE DOOR/ WINDOW/ HARDWARE TYPES FOR THE ENTIRE CONTRACT. NOT ALL DOOR/ WINDOW/ HARDWARE TYPES ARE USED FOR ANY PARTICULAR BUILDING DESIGN. CONTRACTOR SHALL REFER TO THE FLOOR PLAN FOR THE TYPES BEING USED.

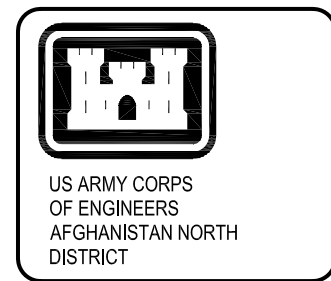
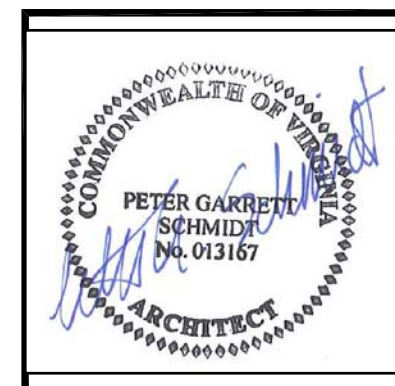
INTERIOR DOOR HARDWARE TYPES:

- HW-8 1-1/2 PR HINGES, A8112 (SINGLE JAN/STOREROOM FUNCTION)
1 CLOSER
1 EA LOCKSET W/LEVER HANDLES, F07 GRADE 1
1 EA WALL STOP, L02101 OR L02161
2 EA MOP PLATE, J103
3 EA DOOR SILENCERS, L03011
- HW-9 1-1/2 PR HINGES, A5112 114 X 114 (SINGLE EXIT DOOR)
1 EA RIM EXIT DEVICE, TYPE 1
1 EA CYLINDER, E09221A, GRADE 1
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011
- HW-10 3 PR HINGES, A5112 114 X 114 (DOUBLE STOREROOM FUNCTION)
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F7
2 EA LEVER EXTENSION FLUSH BOLTS, L04081
1 EA ASTRAGAL
2 EA DOOR SILENCERS, L03011
- HW-11 1-1/2 PR HINGES, A8112 114 X 114 (SINGLE DORMITORY FUNCTION)
1 EA LOCKSET W/LEVER HANDLES, F13, GRADE 1
1 EA WALL STOP, L02101 OR L02161
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
3 EA DOOR SILENCERS, L03011
1 EA ROBE HOOK
- HW-12 1-1/2 PR HINGES, A8133 (SINGLE PRIVACY-BATH FUNCTION)
1 EA LATCH SET W/LEVER HANDLES, F22 GRADE 1
1 EA WALL STOP, L02101 OR L02161
3 EA DOOR SILENCERS, L03011
1 EA ROBE HOOK
- HW-13 3 PR HINGES, A5112 114 X 114 (DOUBLE DORMITORY FUNCTION)
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F13
1 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
2 EA LEVER EXTENSION FLUSH BOLTS, L04081
1 EA ASTRAGAL
2 EA DOOR SILENCERS, L03011
- HW-14 3 PR HINGES, A5112 114 X 114 (DOUBLE EGRESS EXIT DOOR)
2 EA VERTICAL ROD EXIT DEVICE, TYPE 1
2 EA CYLINDER, GRADE 1
2 EA OVERHEAD CLOSER, C02061, LOW RESISTANCE
1 EA DOOR COORDINATOR, TYPE 21
1 EA ASTRAGAL
2 EA DOOR SILENCERS, L03011
- HW-15 3 PR HINGES, A5112 114 X 114 (DOUBLE STOREROOM FUNCTION)
2 CLOSERS
1 COORDINATOR
1 EA LOCKSET W/LEVER HANDLES, GRADE 1, F7
2 EA LEVER EXTENSION FLUSH BOLTS, L04081
1 EA ASTRAGAL
2 EA DOOR SILENCERS, L03011

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DESIGNED BY:	DATE:	REV:
PGS. SE MR:	3-22-2011	0
DWN BY:	CONTRACT NO.	
SE. MDH. AH	W912ER-09-D-0002	
REVIEWED BY:	DRAWING CODE:	
SUBMITTED BY:	FILE NAME:	
	PLOT SCALE:	1:50
	PLOT DATE:	3/22/2011

BAKER

U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN
CORPS OF ENGINEERS
APO AE 09356

SITE ADAPT DESIGN

B21 - NCO BARRACKS - LARGE - ARCH SPAN
WINDOW AND DOOR SCHEDULES

SHEET
REFERENCE
NUMBER:

A-601

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H

6

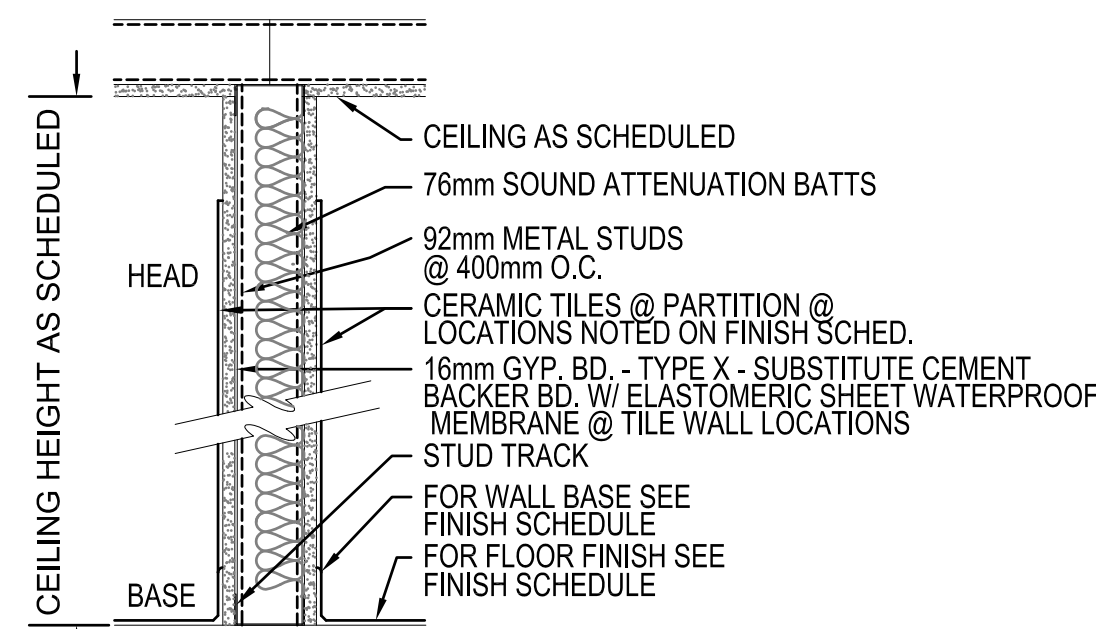
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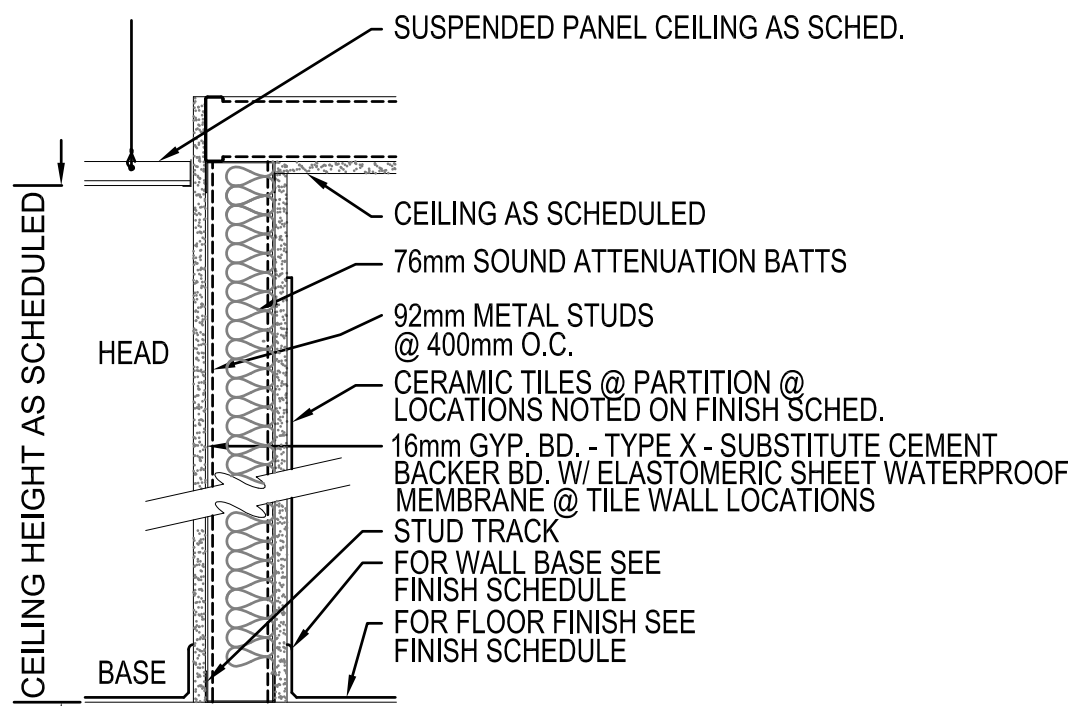
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2

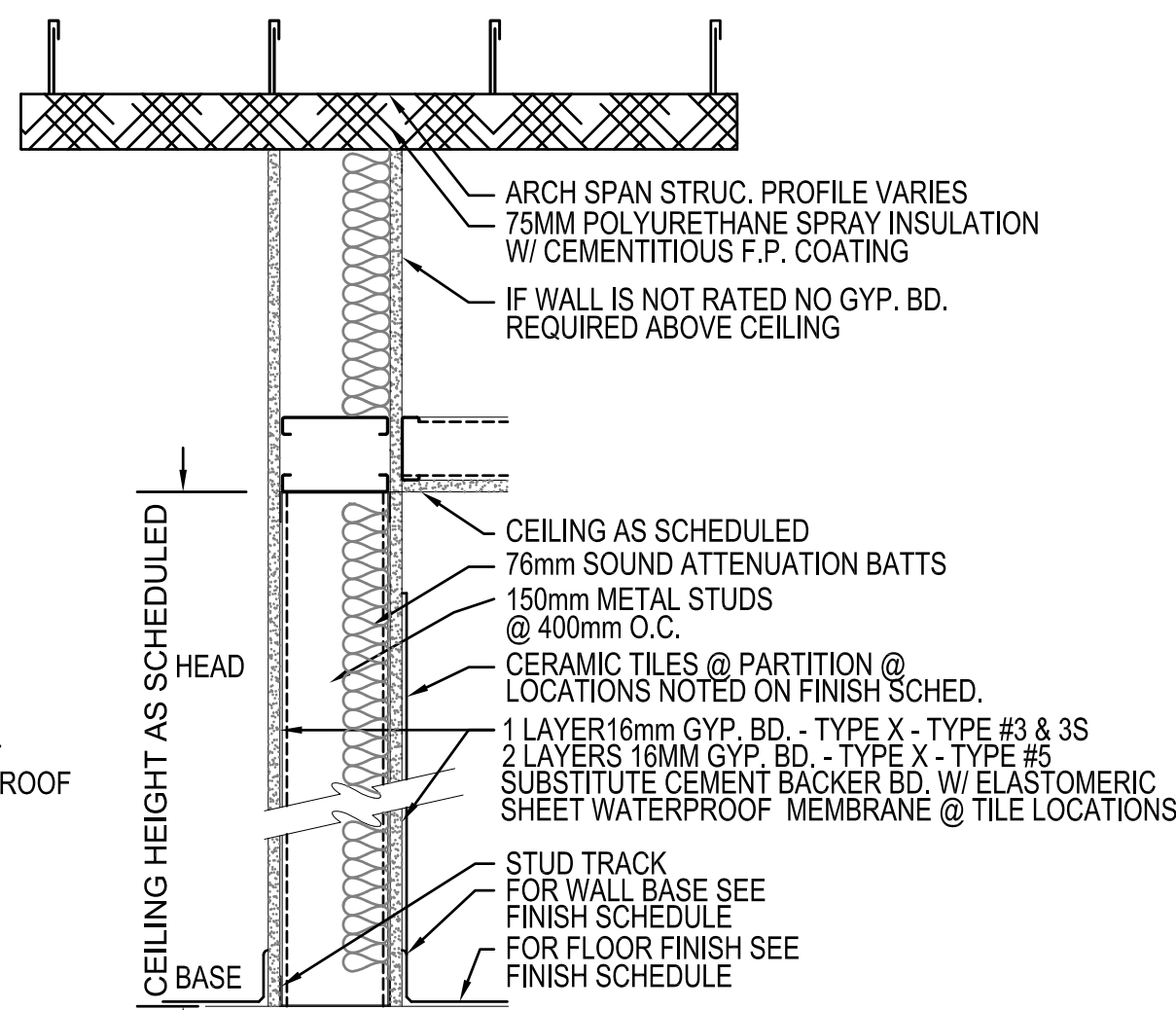
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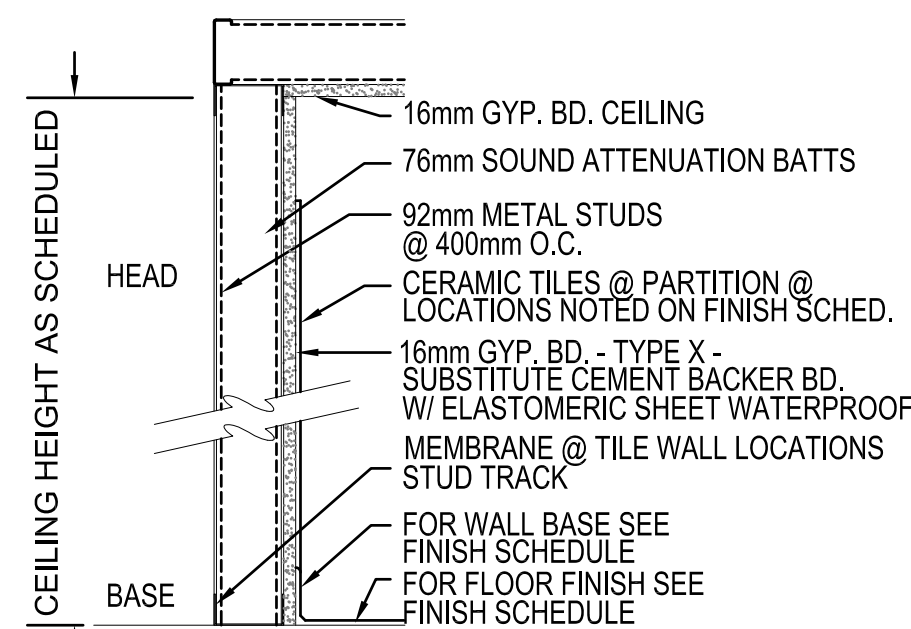
1 TYPE #1 - 1 HOUR FIRE RATED & NON-RATED
DESIGN NO. U419 OR U442
DESIGN NO. WHI 694-0300.1 (SIM)



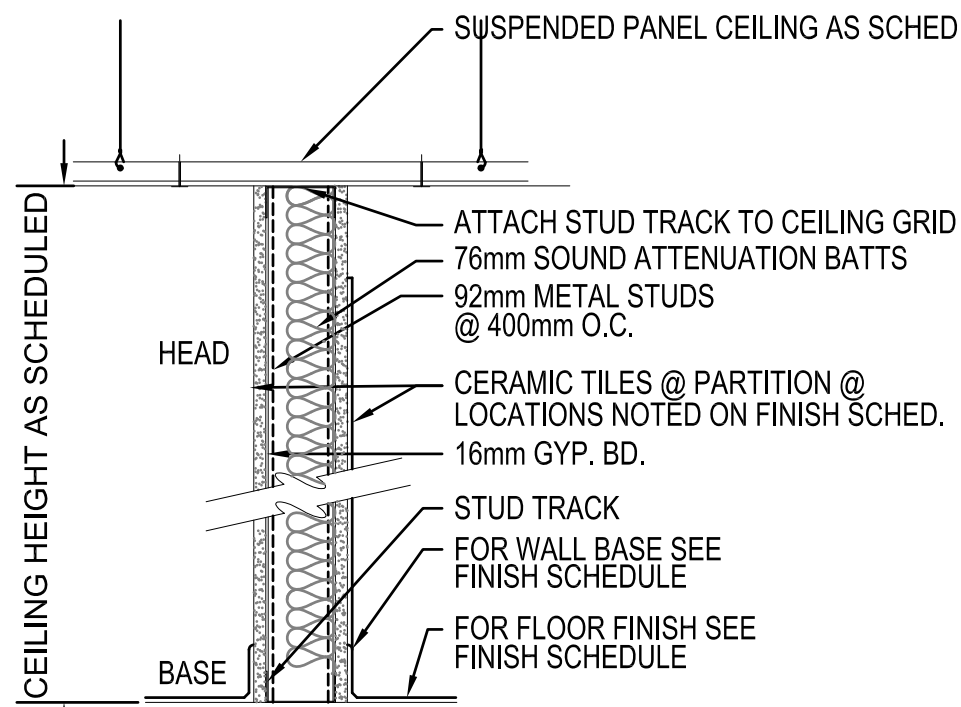
2 TYPE #2 - 1 HOUR FIRE RATED & NON-RATED
DESIGN NO. U419 OR U442/WALL
DESIGN NO. WHI 694-0300.1 (SIM)



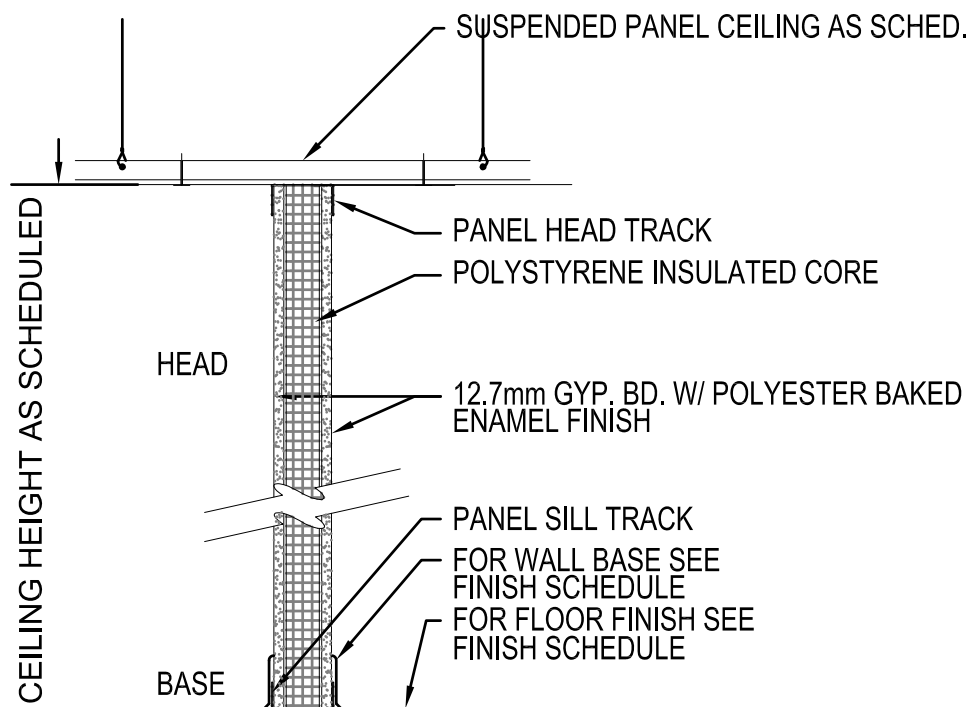
3 TYPE #3 - 1 HOUR FIRE RATED
DESIGN NO. U419
DESIGN NO. WHI 694-0300.1 (SIM)
3S TYPE #3S - 1 HOUR FIRE & SMOKE RATED
DESIGN NO. U419
DESIGN NO. WHI 694-0300.1 (SIM)
5 TYPE #5 - 2 HOUR FIRE RATED - PROVIDE 150 MM
METAL STUDS @ PARTITION TYPES 5 IN LIU OF 92 MM STUDS
DESIGN NO. U443
DESIGN NO. WHI 694-0300.1 (SIM)



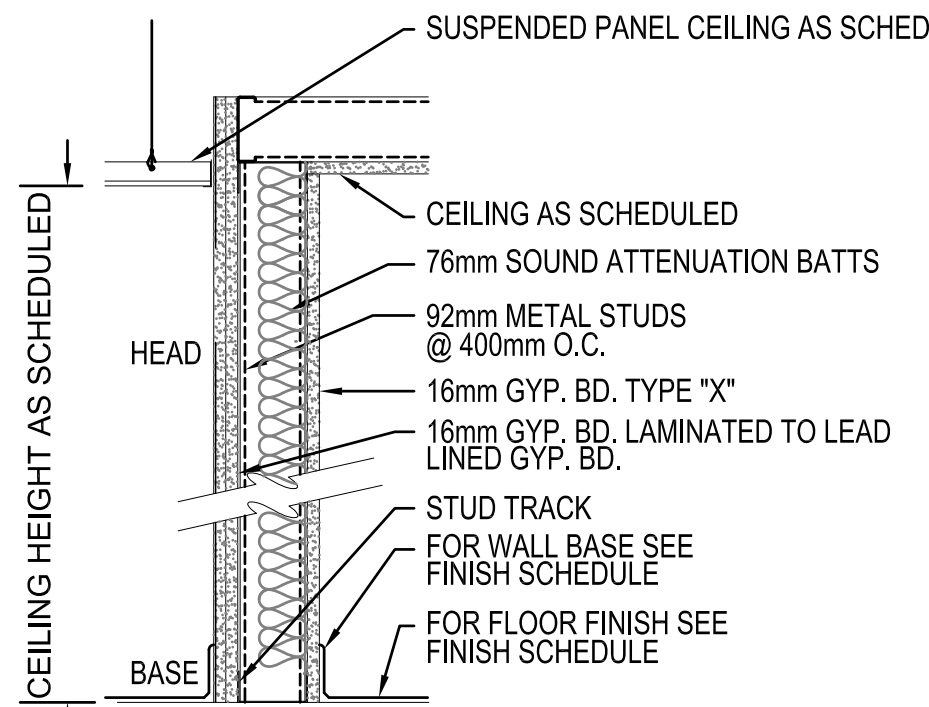
4 TYPE #4 - CHASE PARTITION



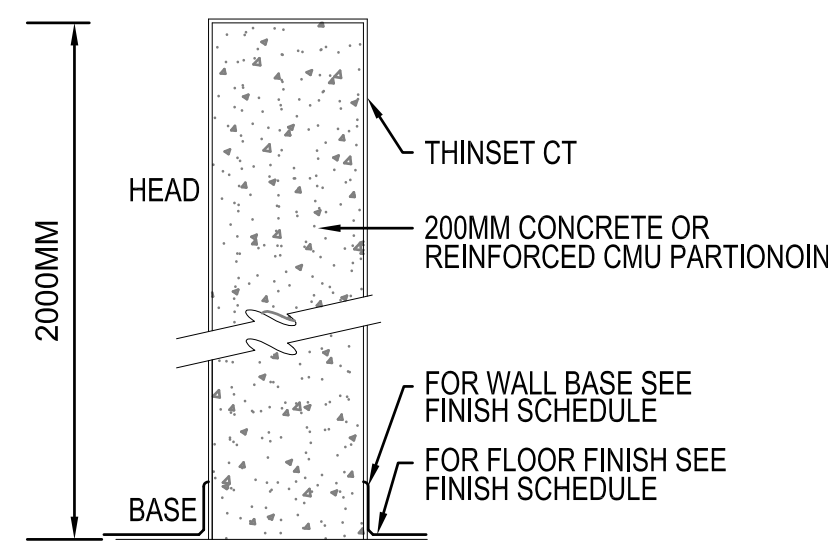
6 TYPE #6 - KITCHEN PARTITION



7 TYPE #7 - PANELIZED PARTITION



8 TYPE #8 - LEAD LINED PARTITION



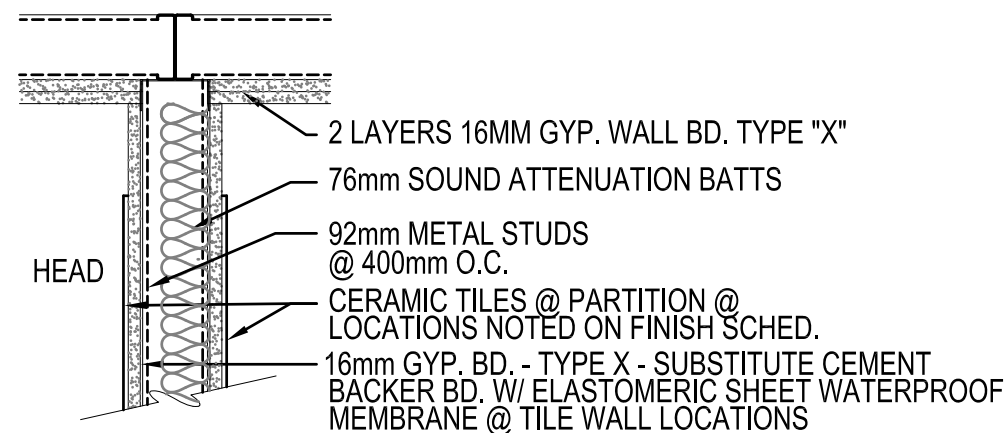
9 TYPE #9 - LOW WALL

PARTITION TYPES

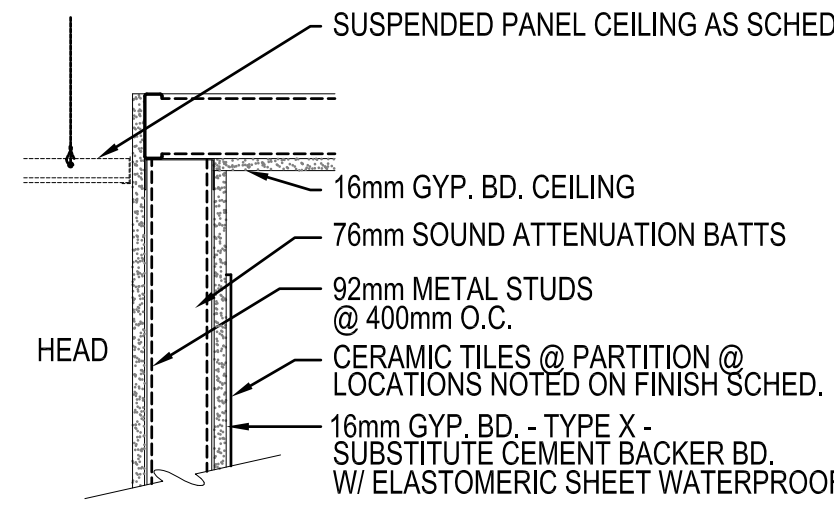
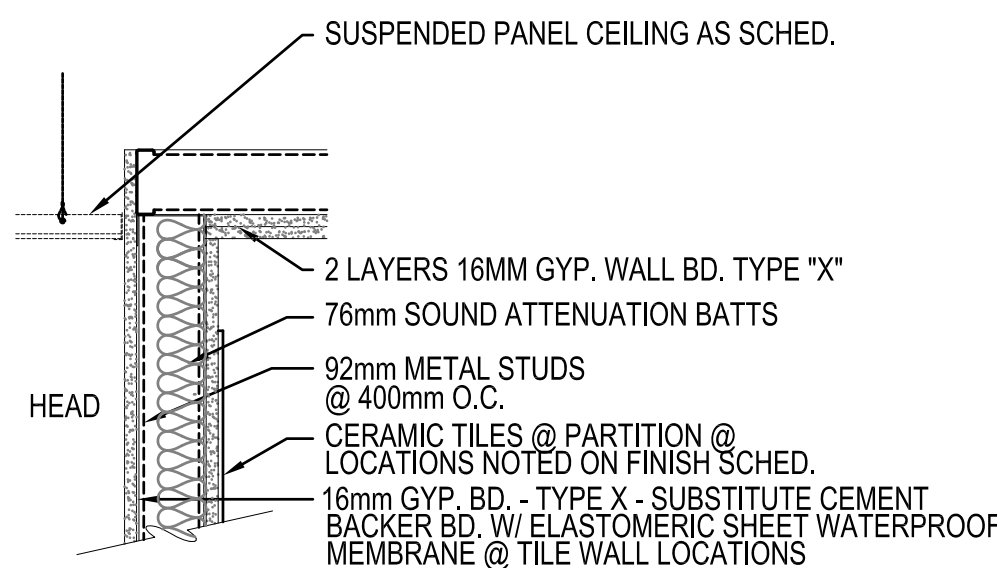
1 A-602 SCALE: 1:10

GENERAL NOTES:

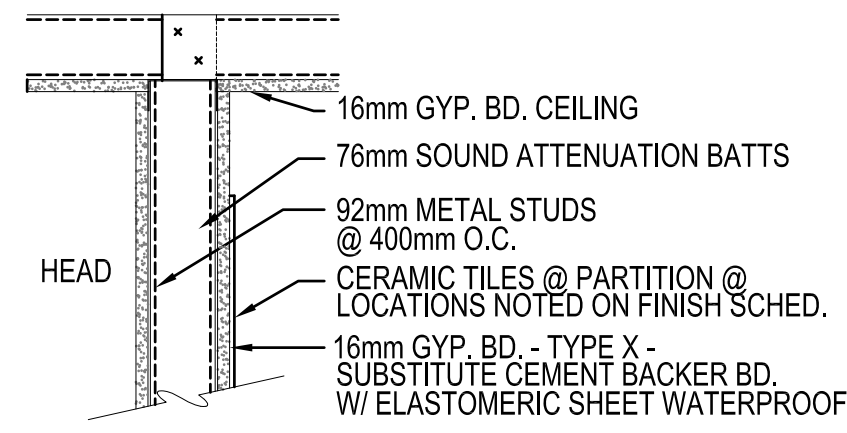
- REFER TO DRAWING G-003 FOR LOCATION OF FIRE RATED WALLS & FIRE RESISTANT CEILINGS.
- REFER TO FINISH SCHEDULE FOR LOCATION OF CERAMIC TILE WALL FINISH. AT THESE LOCATION SUBSTITUTE CEMENT BACKER BOARD AND ELASTOMERIC SHEET WATER PROOF MEMBRANE WITH THINSET CERAMIC TILE FOR GYPSUM BOARD AND PAINT FINISH TO C.T. HEIGHT.
- REFER TO 6/A-501 FOR TYPE 3, 3S, & 5 BRACING DETAIL. INTERMEDIATE HT. BRACING DETAIL FOR FULL HT. WALLS WHERE APPLICABLE.
- PARTITION TYPES ARE NOT APPLICABLE AT ALL BUILDINGS. SEE FLOOR PLAN & NOTES FOR REQUIRED TYPES
- SEE COLD FORMED FRAMING NOTES PORTION OF STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION



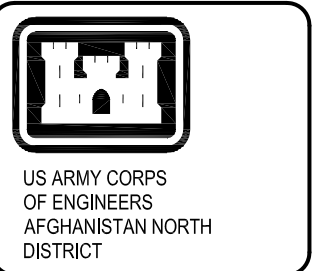
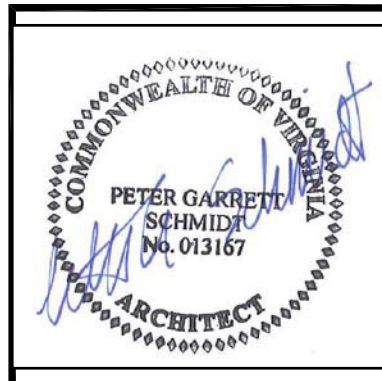
2 FIRE RESISTANT CEILING CONDITIONS
A-602 SCALE: 1:10



3 NON-RATED CEILING CONDITIONS
A-602 SCALE: 1:10



0 100 200 400
SCALE: 1:10
UNLESS OTHERWISE NOTED,
LINEAR DIMENSIONS
SHOWN ARE IN MILLIMETERS.



REV	DATE	DESCRIPTION
0		

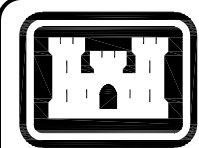
DATE: 3-22-2011	REV: 0
CONTRACT NO. W912ER-09-D-0002	
DRAWING CODE:	
FILE NAME: A602PARTITION-A-602	
PLOT SCALE: 1:10	
PLOT DATE: 3/22/2011	

DESIGNED BY: PGS. SE. MR	CKD BY: PGS. SE. MR
DWN BY: SE. MDH. AH	REVIEWED BY: PGS. SE. MR
SUBMITTED BY: BAKER	

U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN
CORPS OF ENGINEERS
APO AE 09356

SITE ADAPT DESIGN
B21 - NCO BARRACKS - LARGE - ARCH SPAN
PARTITION TYPES

SHEET
REFERENCE
NUMBER:
A-602



EXHAUST FAN SCHEDULE

NO.	TYPE	FLOW RATE (LPS)	DRIVE	HP	SP mmH2O	ELECTRICAL DATA	SWITCH
EF-1	CEILING	35	DIRECT	FRACTIONAL	7	220/1/50	W/ STAT
EF-2	PROP	1390	DIRECT	3/4	13	220/1/50	W/ STAT

NOTES:

1. FAN OUTLETS SHALL HAVE LOW LEAKAGE GRAVITY LOUVER.
2. INTERLOCK SF-1 OPERATION WITH EXHAUST FAN EF-2.
3. PROVIDE INLINE FANS WITH UNIT MOUNTED DISCONNECT SWITCH.

ELECTRIC UNIT HEATER SCHEDULE

NO.	FLOW RATE (LPS)	CAPACITY (KW)	F.A.T. (°C)	ELECT. CHAR.	MOUNTING
EH-2	200	2	38	220/1/50	WALL HUNG

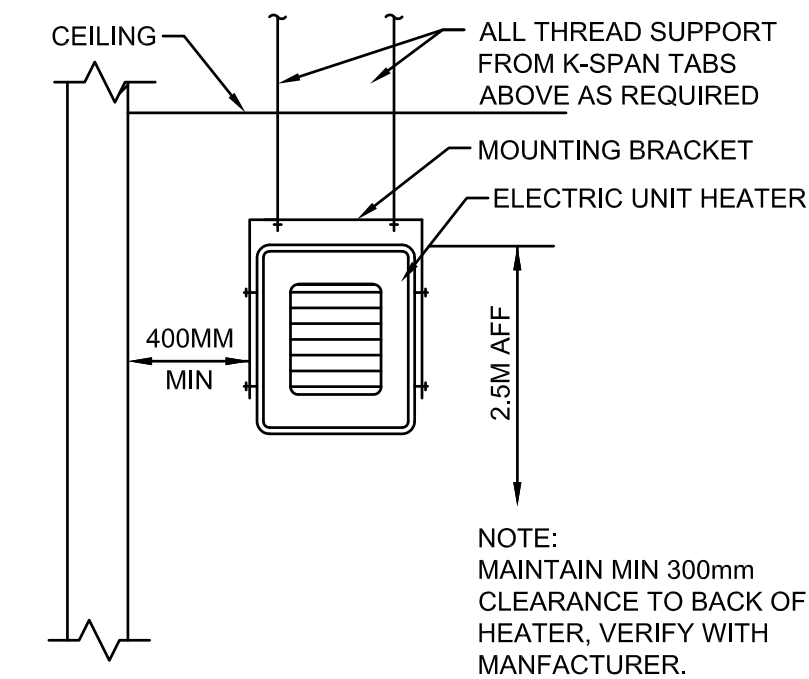
NOTES:

1. PROVIDE UNIT MOUNTED DISCONNECT SWITCH.
2. PROVIDE TAMPER RESISTANT UNIT MOUNTED THERMOSTAT.
3. UNIT SHALL BE HUNG AND MOUNTED 2.5M AFF.

CEILING FAN					
NO.	BLADE SIZE		VOLTAGE	SWITCH	REMARKS
	mm	IN			
CF-1	1320	52	220/150	@ WALL	3 SPEED REVERSIBLE MOTOR

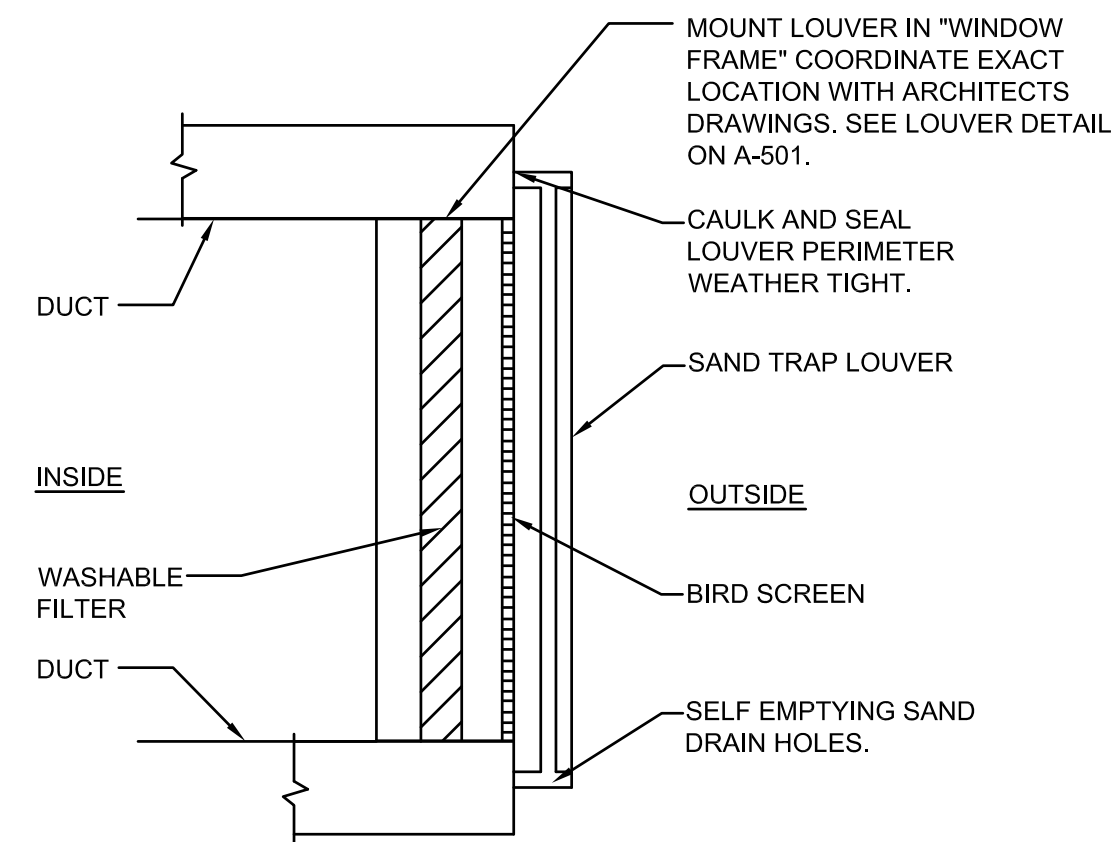
NOTES:

1. IF FANS ARE TO BE INSTALLED IN AN AREA WITHOUT A CEILING, PROVIDE EXTENSION DOWN RODS FROM ARCH-SPAN TABS, BRACE / GUY FAN AS REQUIRED AND INSTALL FANS 2.5M AHEAD. IF FANS ARE TO BE MOUNTED IN AREA WITH A CEILING GRID OR HARD CEILING, MOUNT PER MANUFACTURERS RECOMMENDATIONS. SEE ELECTRICAL DRAWINGS FOR MOUNTING OPTIONS.
2. PROVIDE WITHOUT LIGHT FIXTURE.
3. PROVIDE WITH REMOTE MOUNTED ON-OFF SWITCH. SWITCHES ARE SHOWN ON ELECTRICAL DRAWINGS.
4. COORDINATE CEILING FANS WITH LIGHTS, IN GENERAL FANS SHALL BE CENTED BETWEEN LIGHTS WHEN POSSIBLE.



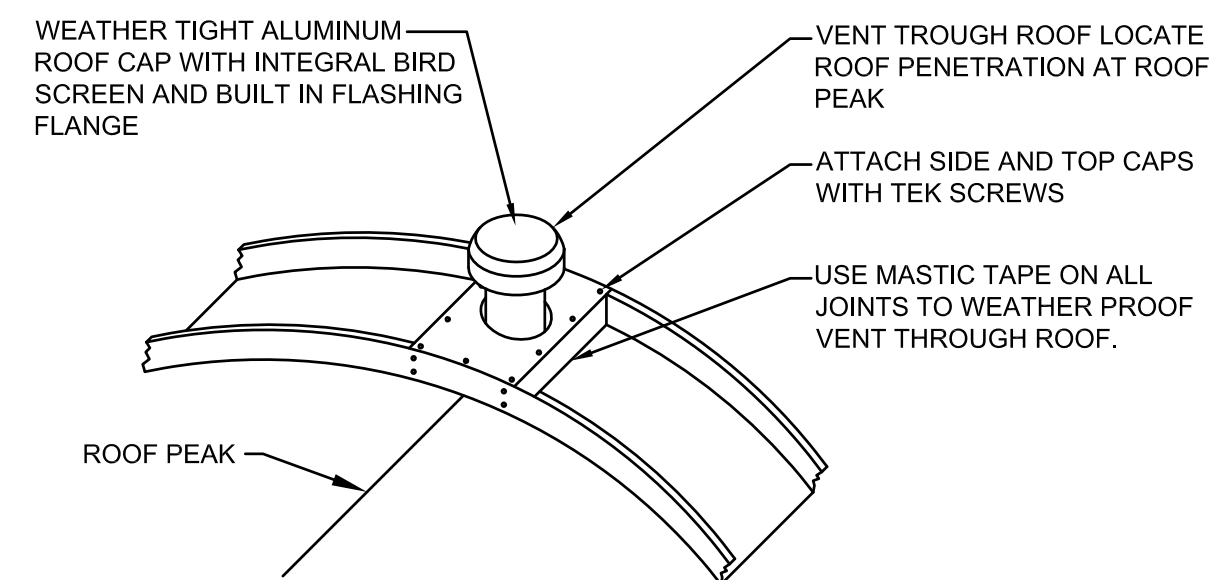
ELECTRIC UNIT HEATER MOUNTING DETAIL

SCALE: N.T.S.



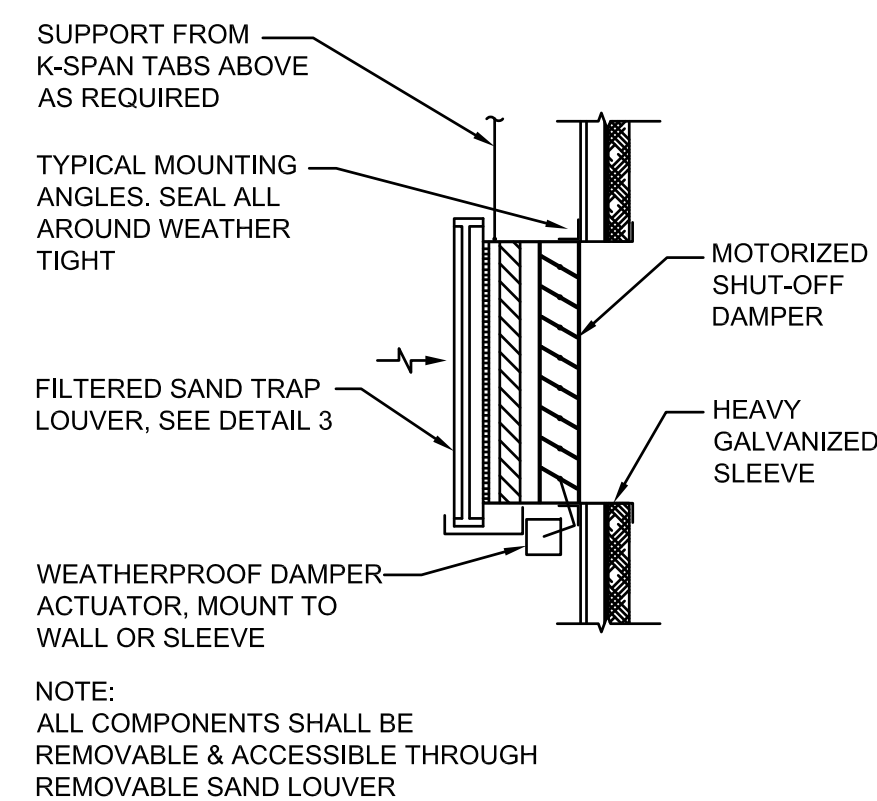
FILTERED
SAND TRAP LOUVER

SCALE: N.T.S.



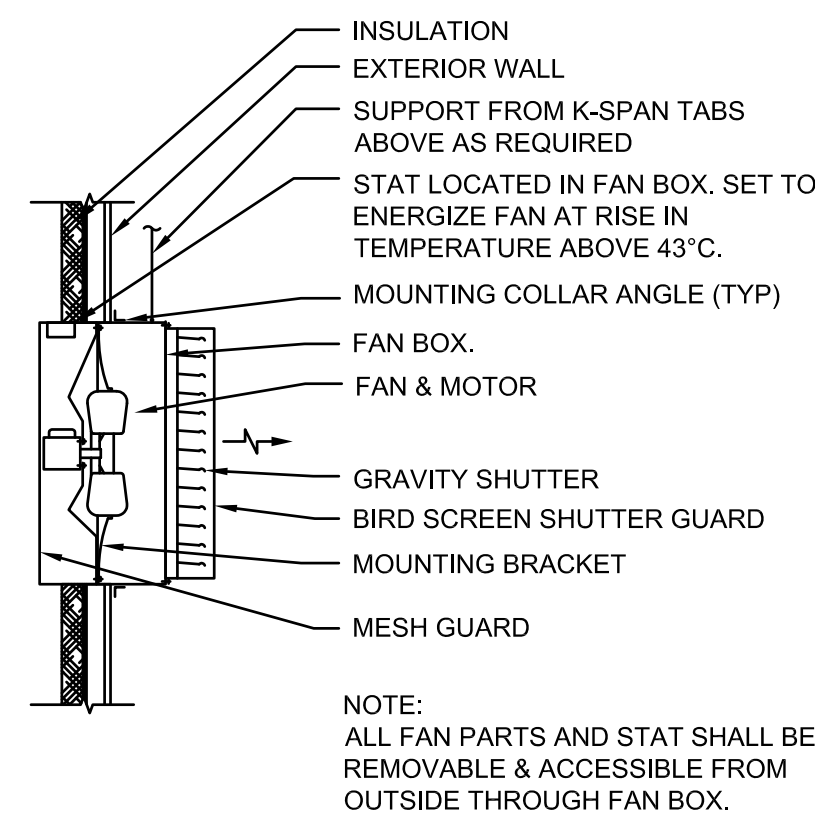
EXHAUST FAN ROOF CAP DETAIL

SCALE: N.T.S.

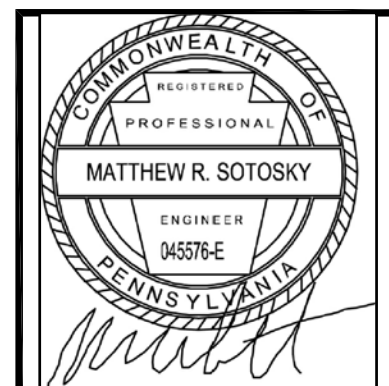


ATTIC VENTILATION SYSTEM DETAIL

SCALE: N.T.S.



NOTE:
ALL FAN PARTS AND STAT SHALL BE
REMOVABLE & ACCESSIBLE FROM
OUTSIDE THROUGH FAN BOX.



UNLESS OTHERWISE NOTED,
LINEAR DIMENSIONS
SHOWN ARE IN MILLIMETERS.



FLOOR PLAN - PART A

SCALE: 1:100

1. REFER TO DRAWING #E-001 FOR THE ELECTRICAL SYMBOLS LIST.
2. REFER TO DRAWING #E-601 FOR THE LIGHTING FIXTURE SCHEDULE.
3. REFER TO DRAWING #E-602 FOR PANEL SCHEDULES.
4. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE PROVIDED WITH A BATTERY BACKUP BALLAST.
5. LIGHT SWITCHES AND CEILING FAN SWITCHES SHALL BE GANGED IN THE SAME FACEPLATE AT ROOM ENTRANCES.
6. CIRCUITS SHOWN INCLUDE ONE PHASE CONDUCTOR, ONE NEUTRAL, AND ONE EQUIPMENT GROUND CONDUCTOR UNLESS OTHERWISE SHOWN. THE CONDUCTOR SIZE SHALL BE 2.5mm² UNLESS INDICATED OTHERWISE ON THE PANEL SCHEDULE.



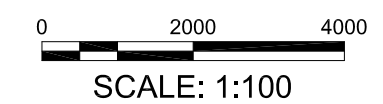
FLOOR PLAN - PART B

SCALE: 1:100

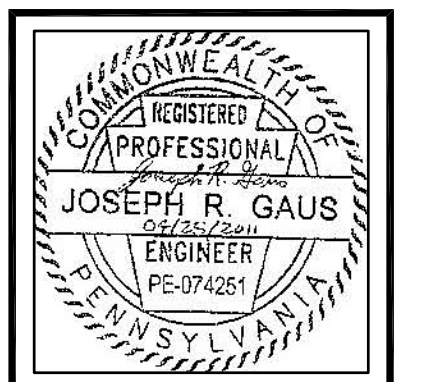


NON-OPEN BAY MOUNTING DETAIL

NOT TO SCALE



UNLESS OTHERWISE NOTED,
LINEAR DIMENSIONS
SHOWN ARE IN MILLIMETERS.



B21 - NCO BARRACKS - LARGE - ARCH SPAN
ELECTRICAL LIGHTING PLAN

SHEET
REFERENCE
NUMBER:

E-101

3/22/2011 5:16 PM

1

2

3

4

5

6

A

B

C

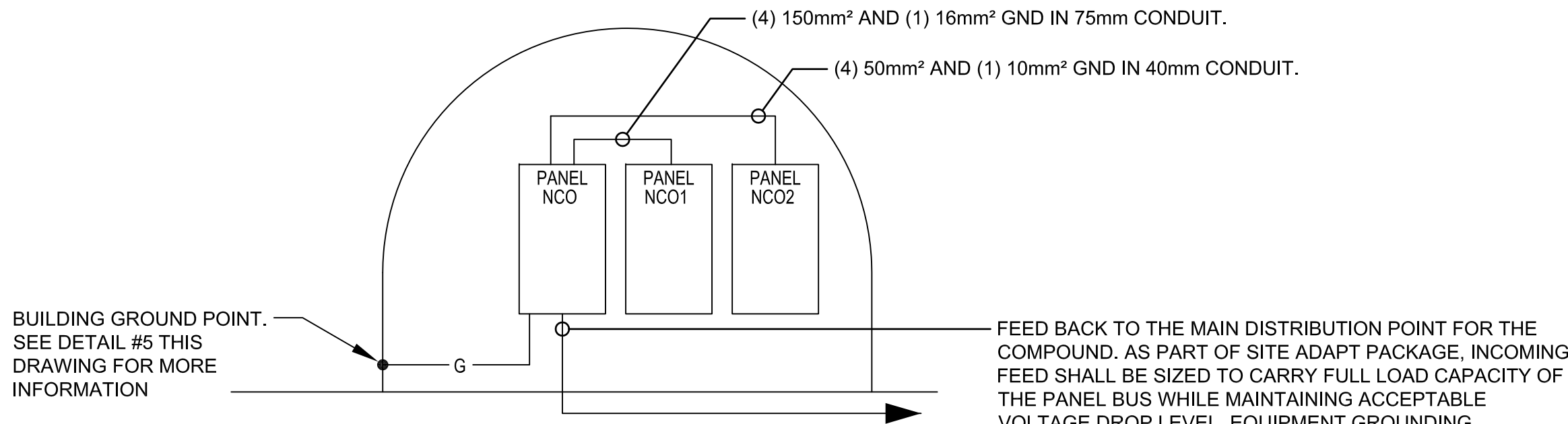
D

E

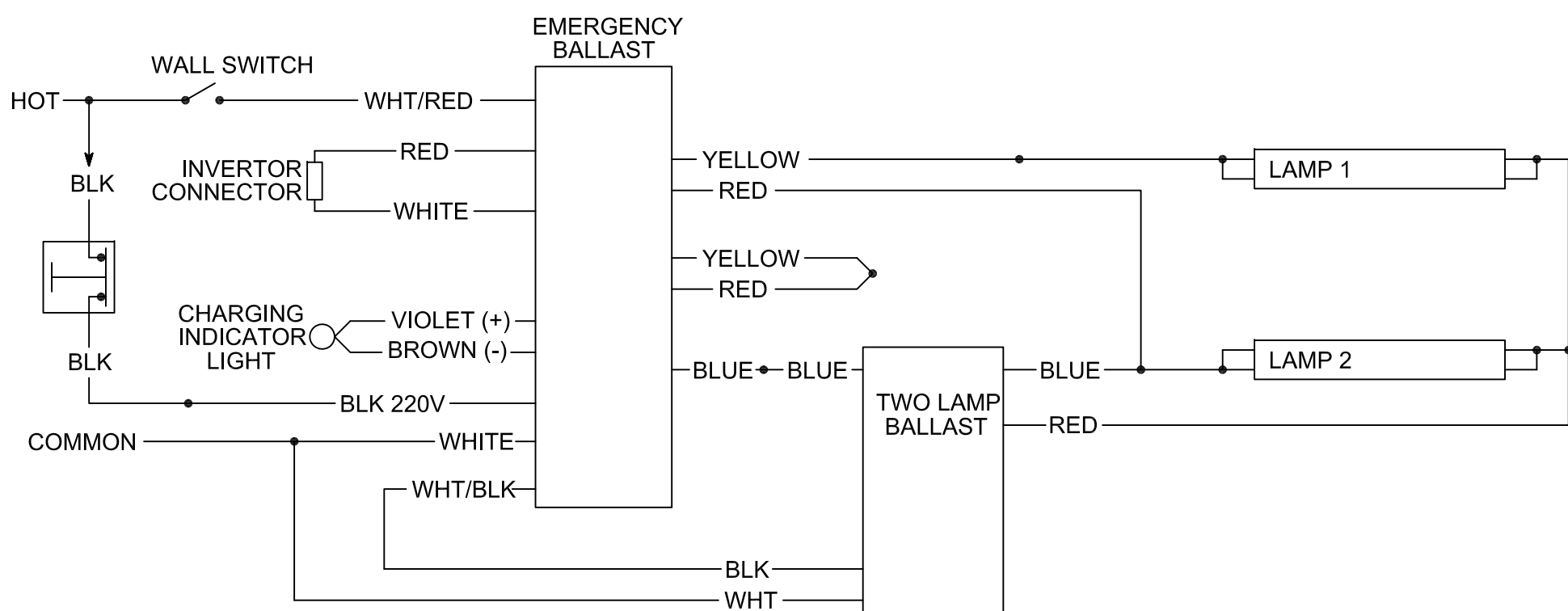
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G

H

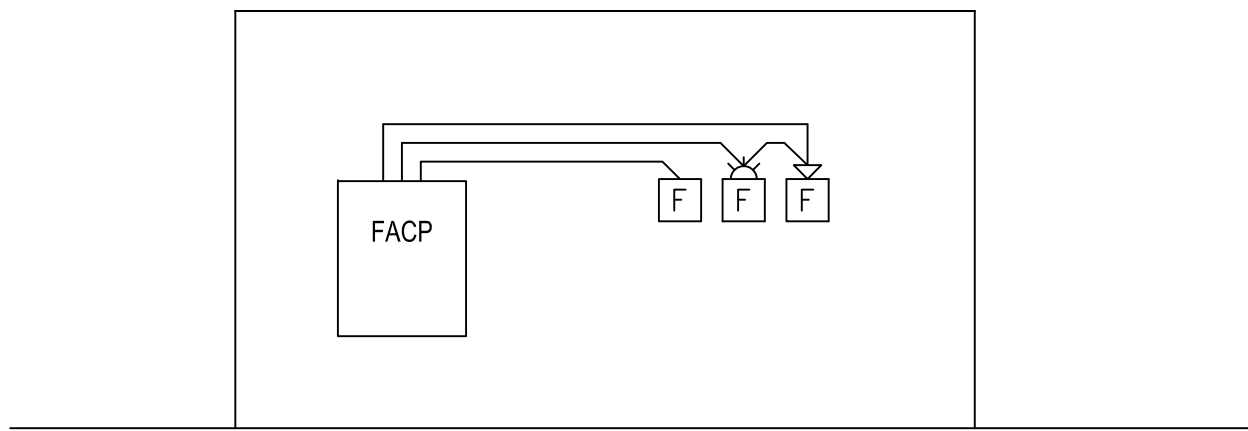


1 NCO RISER DIAGRAM
E-501 SCALE: N.T.S.

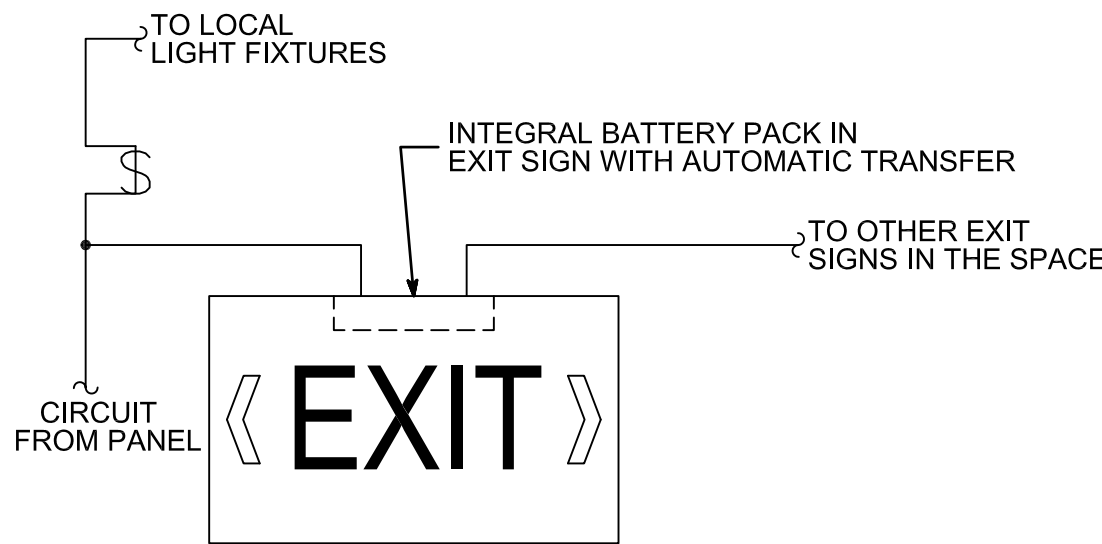


4 EMERGENCY FIXTURE WIRING DIAGRAM
E-501 SCALE: N.T.S.

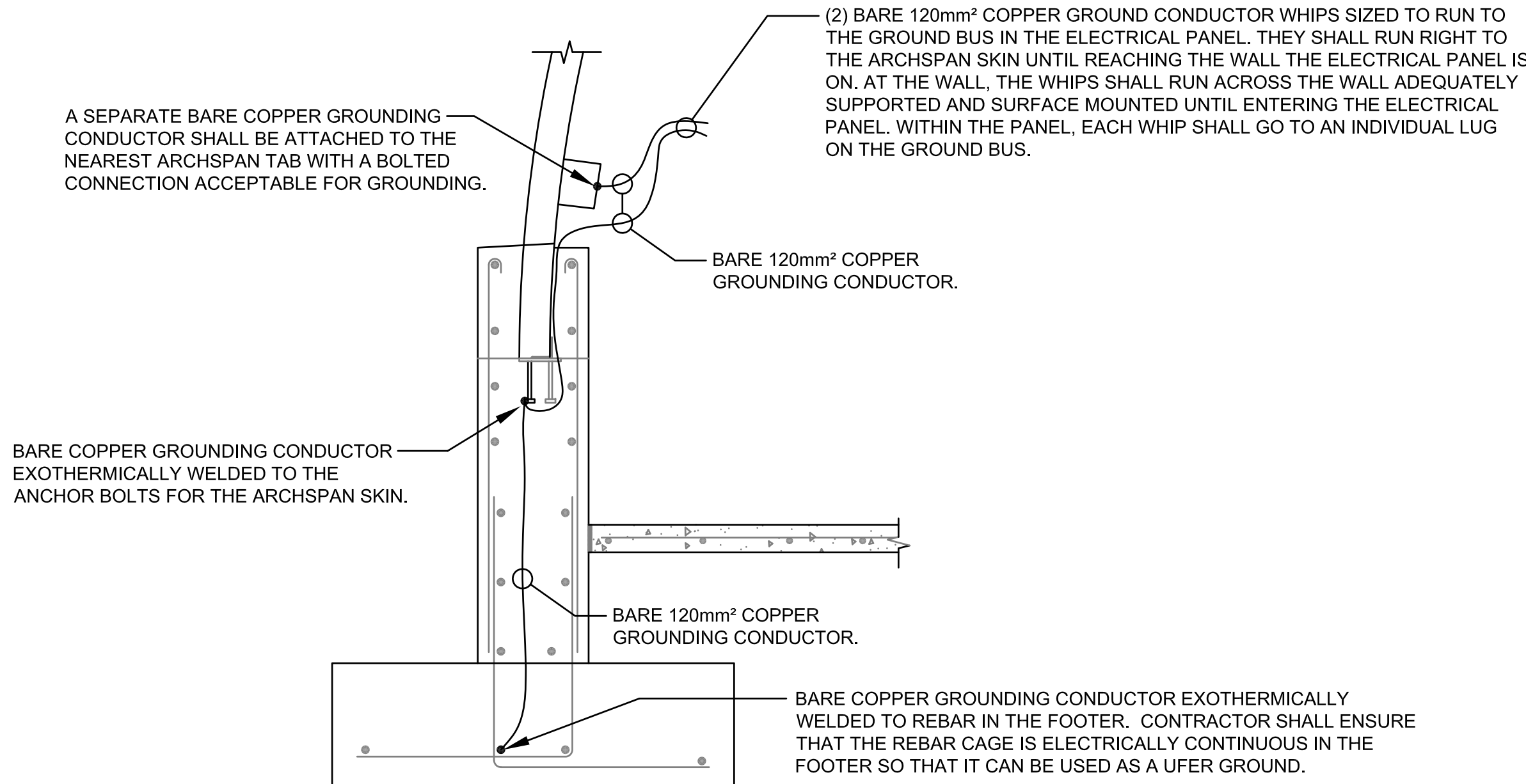
A LARGER OF THE TWO SIZES GIVEN IN THE TABLES BELOW		B EQUIPMENT GROUNDING CONDUCTOR	
GROUNDING ELECTRODE CONDUCTOR (BASED ON AIC RATING)		RATING OR SETTING OF AUTOMATIC OVERCURRENT DEVICE IN CIRCUIT AHEAD OF EQUIPMENT, CONDUIT, ETC, NOT EXCEEDING (AMPERES)	NECESSARY EQUIPMENT GROUNDING CONDUCTOR SIZE
AIC RATING OF SERVICE EQUIPMENT	NECESSARY GROUNDING ELECTRODE CONDUCTOR SIZE		
10K	(1) 35mm²	15	2.5mm²
14K	(1) 50mm²	20	4.0mm²
18K	(1) 70mm²	30	6.0mm²
22K	(1) 70mm²	40	6.0mm²
25K	(1) 70mm²	60	6.0mm²
30K	(1) 95mm²	100	10mm²
35K	(1) 120mm²	200	16mm²
42K	(1) 150mm²	300	25mm²
65K	(1) 185mm²	400	25mm²
100K	(1) 300mm²	500	35mm²
125K	(2) 185mm²	600	50mm²
200K	(2) 300mm²	800	70mm²
		1000	70mm²
		1200	95mm²
		1600	120mm²
		2000	150mm²
		2500	185mm²
		3000	240mm²
		4000	300mm²
		5000	400mm²
		6000	400mm²
GROUNDING ELECTRODE CONDUCTOR (BASED ON NEC TABLE 250.66)		NOTE: ALL SIZES ARE BASED ON COPPER CONDUCTORS.	
SIZE OF LARGEST UNGROUNDED SERVICE CONDUCTOR OR EQUIVALENT AREA FOR PARALLEL CONDUCTORS	NECESSARY GROUNDING ELECTRODE CONDUCTOR SIZE		
350 kcmil OR SMALLER	35mm²		
OVER 350 kcmil TO 600 kcmil	70mm²		
OVER 600 kcmil TO 1100 kcmil	70mm²		
OVER 1100 kcmil	95mm²		



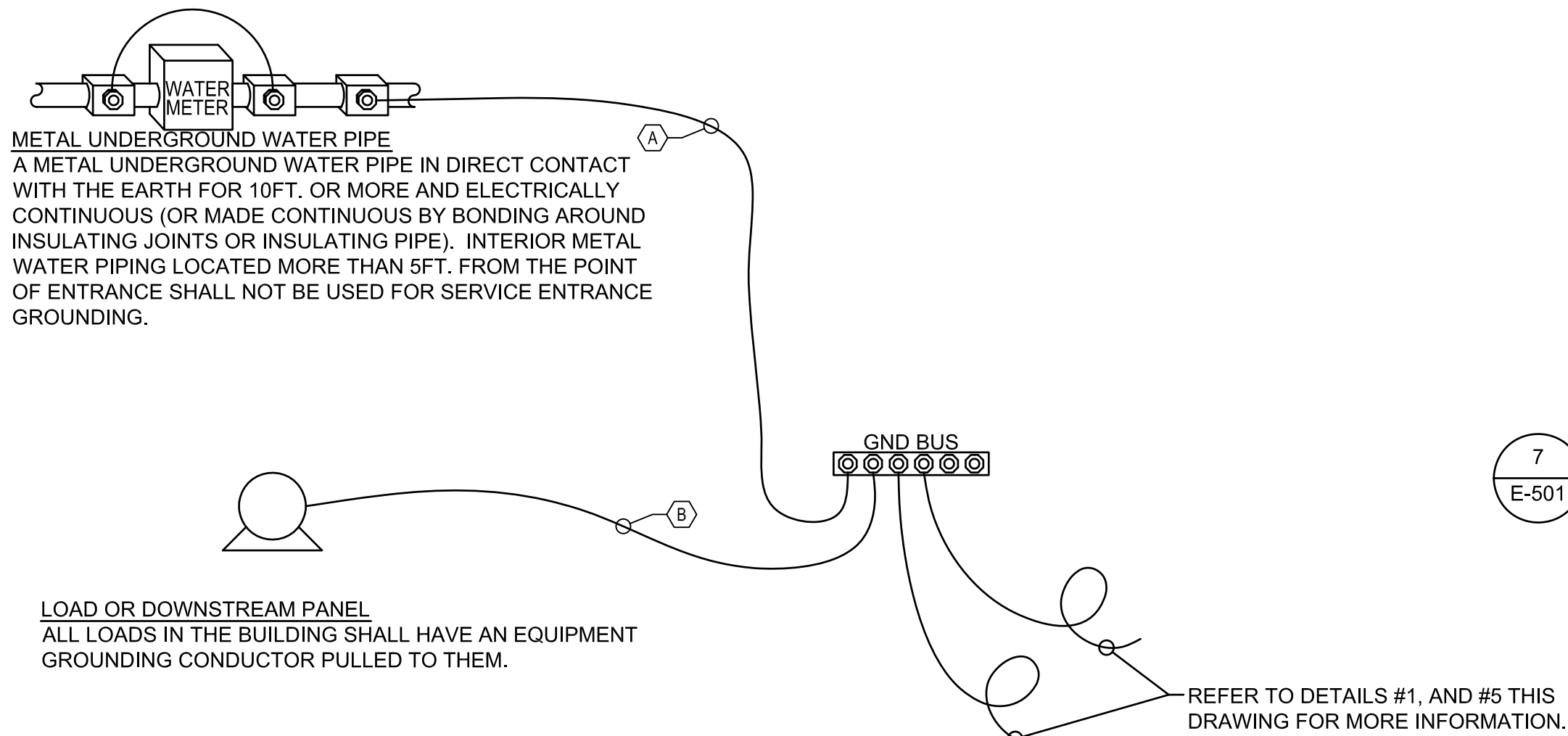
2 TYPICAL ONE STORY FIRE ALARM RISER
E-501 SCALE: N.T.S.



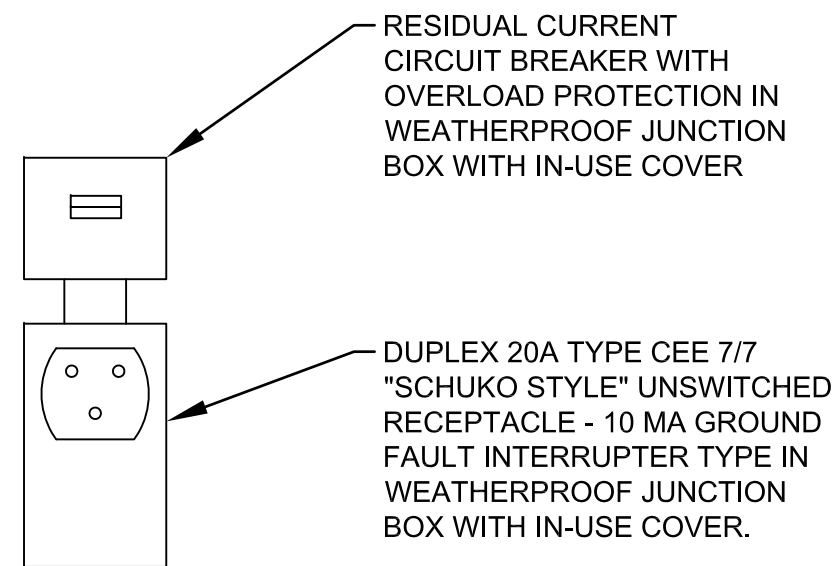
3 EXIT SIGN WIRING DIAGRAM
E-501 SCALE: N.T.S.



5 BUILDING GROUNDING DETAIL
E-501 SCALE: N.T.S.

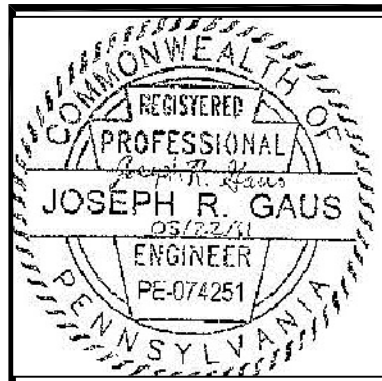


6 SERVICE ENTRANCE GROUNDING DETAIL
E-501 SCALE: N.T.S.



7 RECEPTACLE DETAIL
E-501 SCALE: N.T.S.

UNLESS OTHERWISE NOTED,
LINEAR DIMENSIONS
SHOWN ARE IN MILLIMETERS.



REV	DATE	DESCRIPTION	APPR.	SYMBOL
0	3/22/2011			

DATE: 3/22/2011	REV: 0
CONTRACT NO. W912ER-09-D-0002	DRAWING CODE: JG
FILE NAME: JG-074251-001.DWG	PLOT SCALE: NONE
PLOT DATE: 3/22/2011	

DESIGNED BY: JG	CHKD BY: JG	REVIEWED BY: JH	SUBMITTED BY: JH
DWN BY: BB			

BAKER

U.S. ARMY ENGINEER DISTRICT, AFGHANISTAN
CORPS OF ENGINEERS
APO AE 09356

SITE ADAPT DESIGN
B21 - NCO BARRACKS - LARGE - ARCH SPAN
ELECTRICAL DETAILS

SHEET
REFERENCE
NUMBER:
E-501

532

1

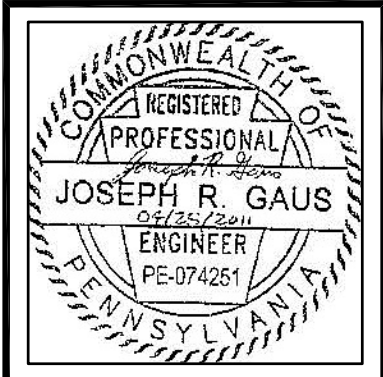
PANELBOARD: <u>NCO2</u>										<u>SURFACE</u> MOUNTED												
<u>AMP MAIN LUGS (OR)</u>										<u>200</u>			<u>AMP MAIN BREAKER W/</u>			<u>200</u>			<u>AMP TRIP</u>			
<u>CIRCUIT BREAKER TYPE: 380/220</u>										<u>VOLTS 3</u>			<u>PHASE 4</u>			<u>WIRE 50 HZ 200</u>			<u>AMP BUS</u>			
CCT #	TRIP AMPS	PH	WIRE MM²	GND MM²	CONDUIT MM	LOAD SERVED	LOAD-KVA			LOAD-KVA			LOAD SERVED	CONDUIT MM	GND MM²	WIRE MM²	PH	TRIP AMPS	CCT #			
							A	B	C	A	B	C										
1	15	1	2.5	2.5	20	RECEPTACLES - 133, 135	1.2			0.5			FIRE ALARM CONTROL PNL - 141	20	2.5	2.5	1	15	2			
3	15	1	2.5	2.5	20	RECEPTACLES - 135, 137		1.2			0.5		RECEPTACLES - 141	20	2.5	2.5	1	15	4			
5	15	1	2.5	2.5	20	SPARE			0.0			0.5	ATTIC MOTORIZED DAMPER	20	2.5	2.5	1	15	6			
7	15	1	2.5	2.5	20	RECEPTACLES - 139	0.8				0.5		ATTIC EXHAUST FAN	20	2.5	2.5	1	15	8			
9	15	1	2.5	2.5	20	RECEPTACLES - CORRIDOR		1.0			0.5		EXHAUST FAN - 141	20	2.5	2.5	1	15	10			
11	15	1	2.5	2.5	20	RECEPTACLES - CORRIDOR			1.2			2.0	ELECTRIC HEATER - 115	20	4	4	1	20	12			
13	20	1	4	4	20	ELECTRIC HEATER - 100	2.0			2.0			ELECTRIC HEATER - 116	20	4	4	1	20	14			
15	20	1	4	4	20	ELECTRIC HEATER - 101		2.0			2.0		ELECTRIC HEATER - 117	20	4	4	1	20	16			
17	20	1	4	4	20	ELECTRIC HEATER - 102			2.0			2.0	ELECTRIC HEATER - 118	20	4	4	1	20	18			
19	20	1	4	4	20	ELECTRIC HEATER - 103	2.0			2.0			ELECTRIC HEATER - 119	20	4	4	1	20	20			
21	20	1	4	4	20	ELECTRIC HEATER - 104		2.0			2.0		ELECTRIC HEATER - 120	20	4	4	1	20	22			
23	20	1	4	4	20	ELECTRIC HEATER - 105			2.0			2.0	ELECTRIC HEATER - 121	20	4	4	1	20	24			
25	20	1	4	4	20	ELECTRIC HEATER - 106	2.0			2.0			ELECTRIC HEATER - 122	20	4	4	1	20	26			
27	20	1	4	4	20	ELECTRIC HEATER - 107		2.0			2.0		ELECTRIC HEATER - 123	20	4	4	1	20	28			
29	20	1	4	4	20	ELECTRIC HEATER - 108			2.0			2.0	ELECTRIC HEATER - 124	20	4	4	1	20	30			
31	20	1	4	4	20	ELECTRIC HEATER - 109	2.0			2.0			ELECTRIC HEATER - 125	20	4	4	1	20	32			
33	20	1	4	4	20	ELECTRIC HEATER - 110		2.0			2.0		ELECTRIC HEATER - 126	20	4	4	1	20	34			
35	20	1	4	4	20	ELECTRIC HEATER - 111			2.0			2.0	ELECTRIC HEATER - 127	20	4	4	1	20	36			
37	20	1	4	4	20	ELECTRIC HEATER - 112	2.0			2.0			ELECTRIC HEATER - 128	20	4	4	1	20	38			
39	20	1	4	4	20	ELECTRIC HEATER - 113		2.0			2.0		ELECTRIC HEATER - 129	20	4	4	1	20	40			
41	20	1	4	4	20	ELECTRIC HEATER - 114			2.0			2.0	ELECTRIC HEATER - 130	20	4	4	1	20	42			
							12.0	12.2	11.2	11.0												

3. CIRCUITS SHOWN AS 1 PH SHALL INCLUDE ONE PHASE CONDUCTOR, ONE NEUTRAL, AND ONE EQUIPMENT GROUND CONDUCTOR. CIRCUITS SHOWN AS 3 PH SHALL INCLUDE THREE PHASE CONDUCTORS, ONE NEUTRAL, AND ONE EQUIPMENT GROUND CONDUCTOR.

EQUIPMENT GROUND CONNECTIONS SHALL INCLUDE THREE (3) INCHES OF

SHEET
REFERENCE
NUMBER:

E-602



UNLESS OTHERWISE NOTED,
LINEAR DIMENSIONS
SHOWN ARE IN MILLIMETERS.